COMPLETENESS DETERMINATION CHECKLIST AND APPLICATION INDEX

Company Name Riley Creek Lumber Company, Laclede Sawmill

Location Laclede, Idaho

Project Tier I Operating Permit Renewal Application

Reviewer _____

The attached forms have been provided as a checklist and application index, to ensure all the required information has been included with the air pollution permit application. These forms shall be submitted along with the application. These checklist/index forms include the following elements of the permit application:

- Application Forms
- Source Descriptions
- Source Flow Diagrams
- Plot Plans
- Emission Estimate References and Documentation
- Excess Emission Documentation - **Not Required**
- Ambient Air Impact Analysis - **Not Required**
- Compliance Certification Plan

Each page of the permit application shall be numbered so that each page can be referenced individually. This will allow these checklist forms to act as the permit application table of contents.

APPLICATION FORMS

APPLICATION FORMS (continued)

	YES	NO
▸ Is the application signed and dated?	_____	_____
▸ Are all the forms adequately completed?	_____	_____

SOURCE DESCRIPTIONS

	YES	NO
▸ Are the existing facilities described?	_____	_____
▸ Are the modifications or new facilities described?	NA	NA
▸ Are all applicable processes, materials, ventilation, and controls described?	_____	_____
▸ Are all the equipment referenced by specific ID name or number?	_____	_____

SOURCE FLOW DIAGRAMS

SOURCE	PAGE
1. Hog Fuel Boiler #1	1 – 5
2. Hog Fuel Boiler #2	1 – 5
3. Debarker	1 – 5
4. Bark Hog	1 – 5
5. Sawmill Processes	1 – 5
6. Drying Kilns	1 – 5
7. Planer Processes	1 – 5
8. Hogged Fuel Handling	1 – 5
9. Sawdust Handling	1 – 5
10. Sawmill Chip Handling	1 – 5
11. Planer Shavings Handling	1 – 5
12. Planer Chip Handling	1 – 5
13. Paved Road Dust Sources	NA

	YES	NO
▸ Are included?	____	____
▸ Shows the entire existing facility?	____	____
▸ Shows the entire future facility?	NA	NA
▸ Shows each process separately (if needed)?	____	____
▸ Details storage, roads, transfers, and processing?	____	____
▸ Labeling is adequate (processes and stacks identified, flow rates and process rates shown)?	____	____

PLOT PLANS

SOURCE	PAGE
1. Hog Fuel Boiler #1	1 – 7
2. Hog Fuel Boiler #2	1 – 7
3. Debarker	1 – 7
4. Bark Hog	1 – 7
5. Sawmill Processes	1 – 7
6. Drying Kilns	1 – 7
7. Planer Processes	1 – 7
8. Hogged Fuel Handling	1 – 7
9. Sawdust Handling	1 – 7
10. Sawmill Chip Handling	1 – 7
11. Planer Shavings Handling	1 – 7
12. Planer Chip Handling	1 – 7
13. Paved Road Dust Sources	NA

	YES	NO
▸ Are included?	_____	_____
▸ Shows location coordinates?	_____	_____
▸ Shows plant boundaries?	_____	_____
▸ Shows neighboring ownership and facilities?	_____	_____
▸ Shows topography?	_____	_____
▸ Scale shown or distances adequately labeled?	_____	_____
▸ Shows all buildings, equipment, storage and roads?	_____	_____
▸ Is adequate for both existing and future or includes both?	_____	_____

EMISSION ESTIMATE REFERENCES AND DOCUMENTATION

	YES	NO
▸ All fugitive and point sources listed?	_____	_____
▸ All pollutants addressed?	_____	_____
▸ Process documentation and specs included?	_____	_____
▸ Control equipment documentation and specs included?	_____	_____
▸ Emission factors documented and referenced?	_____	_____
▸ Calculations and assumptions shown?	_____	_____
▸ Source tests referenced (test includes processing and control device test conditions)?	_____	_____

COMPLIANCE CERTIFICATION PLAN

	YES	NO
▸ Monitoring, record keeping, and reporting discussed?	X	
▸ Stack testing methods thoroughly documented?	NA	NA
▸ Discussion and documentation of process control mechanisms used to meet emission limits?	NA	NA
▸ Quality assurance/quality control discussed?	X	
▸ Monitoring equipment specs and documentation included?	NA	NA

SECTION 1: GENERAL INFORMATION

COMPANY & DIVISION NAME	Riley Creek Lumber Co. -- Laclede Sawmill
STREET ADDRESS OR P.O. BOX	P.O. Box 220
CITY	Laclede
STATE	ID
ZIP	83841
PERSON TO CONTACT	Marc A. Brinkmeyer
TITLE	President
PHONE NUMBER	(208) 263-7574
EXACT PLANT LOCATION	SW 1/4 SE 1/4 Section 30, Township 56 North, Range 5 West
GENERAL NATURE OF BUSINESS	Sawmill
NUMBER OF FULL-TIME EMPLOYEES	150
PROPERTY AREA (ACRES)	62
REASON FOR APPLICATION	5, renewal

(1) Permit to Construct a new facility;
(2) Permit to Modify an existing source;
(3) Permit to Construct a new source at an existing facility;
(4) Change of Owner or Location;
(5) Tier I Permit to Operate;
(6) Tier II Permit to Operate

DISTANCE TO NEAREST STATE BORDER (MILES)	20		
PRIMARY SIC	2421	SECONDARY SIC	None
PLANT LOCATION COUNTY	Bonner	ELEVATION (FT)	2100
UTM ZONE	11		
UTM (X) COORDINATE (KM)	518.2 E	UTM (Y) COORDINATE (KM)	5334.7 N

List all facilities within the state that are under your control, or under common control, and have emissions to the air. If none, so state

NAME OF FACILITIES	LOCATION OF OTHER FACILITIES
Riley Creek - Chilco Sawmill	Athol, Kootenai County
Riley Creek - Moyie Springs	Moyie Springs, Boundary County
Riley Creek - Bonners Ferry	Bonners Ferry, Boundary Co. (currently not operating)

OWNER OR RESPONSIBLE OFFICIAL	Marc A. Brinkmeyer
TITLE OF RESPONSIBLE OFFICIAL	President

Based on Information and belief formed after reasonable inquiry, I certify the statements and information in this document are true, accurate, and complete.

SIGNATURE OF OWNER OR RESPONSIBLE OFFICIAL

DATE 6/21/06

Source Description

Description of Site:

Riley Creek Lumber Company (Riley Creek) owns and operates a sawmill in Laclede, Idaho. The facility is located off Riley Creek Road, between Highway 2 and the Pend Oreille River. The mill is situated in Bonner County in the SW¼ SE¼, Section 30, Township 56 North, Range 5 West. UTM coordinates for the site are Zone 11, Easting 518.18 kilometers, and Northing 5334.72 kilometers. The elevation of the site is approximately 2,100 feet above sea level.

The Riley Creek mill is approximately 60 miles south of the Canadian border. It is 33 miles west of the Montana border and 18 miles east of the Washington border. The area surrounding the Riley Creek facility is classified as attainment or unclassified for all air pollutants.

Summary of the Process:

Riley Creek operates a lumber mill that includes a sawmill, drying kilns, a planer mill and associated equipment, used to process raw logs into dried finished lumber. A steam plant consisting of two wood-fired boilers provides steam to the facility. The boilers and wood drying kilns generally operate 24 hours per day, 7 days per week, 52 weeks per year. The sawmill, planing, and material handling facilities can potentially operate 24 hours (3 shifts) per day, 7 days per week, 52 weeks per year.

Logs are delivered to the mill by truck and stored in the log decks until processed. The logs are transported by loaders to the debarking area, where they are peeled by the debarkers. Bark from the debarkers is processed through a hog where it is shredded and then conveyed to a drop pile where it can be transferred via a front loader to the boiler fuel storage shed, the hog fuel pile, or to trucks for off-site sale. From the boiler fuel storage bin, the hog fuel is augered to Boiler #1. Fuel from the hog fuel pile is loaded into a hopper and mechanically conveyed to Boiler #2.

Peeled logs enter the sawmill where they are cut into lumber. Edge waste from the logs is processed through a chipper and passed through a screen to separate fines and chips. Sawmill chips are transferred pneumatically to the railcar target box or the chip truck bin for loadout to customers. Fines that pass through the screen are combined with the sawmill sawdust and conveyed to a truck bin for loadout to customers.

Lumber is sorted, stacked, and dried in steam-heated dry kilns. Each kiln has numerous roof vents from which hot air is exhausted to maintain a specified kiln temperature. Particulate and naturally occurring VOCs from the wood are the only pollutants exiting the kilns.

Dried lumber from the kilns is planed and trimmed in the planer mill. Trim ends are chipped and transferred pneumatically to the railcar target box or truck storage bin for loadout. Shavings generated through the planer process are collected pneumatically by the planer shavings cyclone which is controlled by a baghouse. Shavings from the cyclone are conveyed to a truck bin for loadout. The finished lumber is sorted, graded, stacked, wrapped, and stored until it can be shipped to customers by truck or rail car.

Insignificant Activities:

Activities and emission units identified as insignificant under IDAPA.01.01.317.01 (b) are listed in the Tier I Operating Permit to qualify for a permit shield.

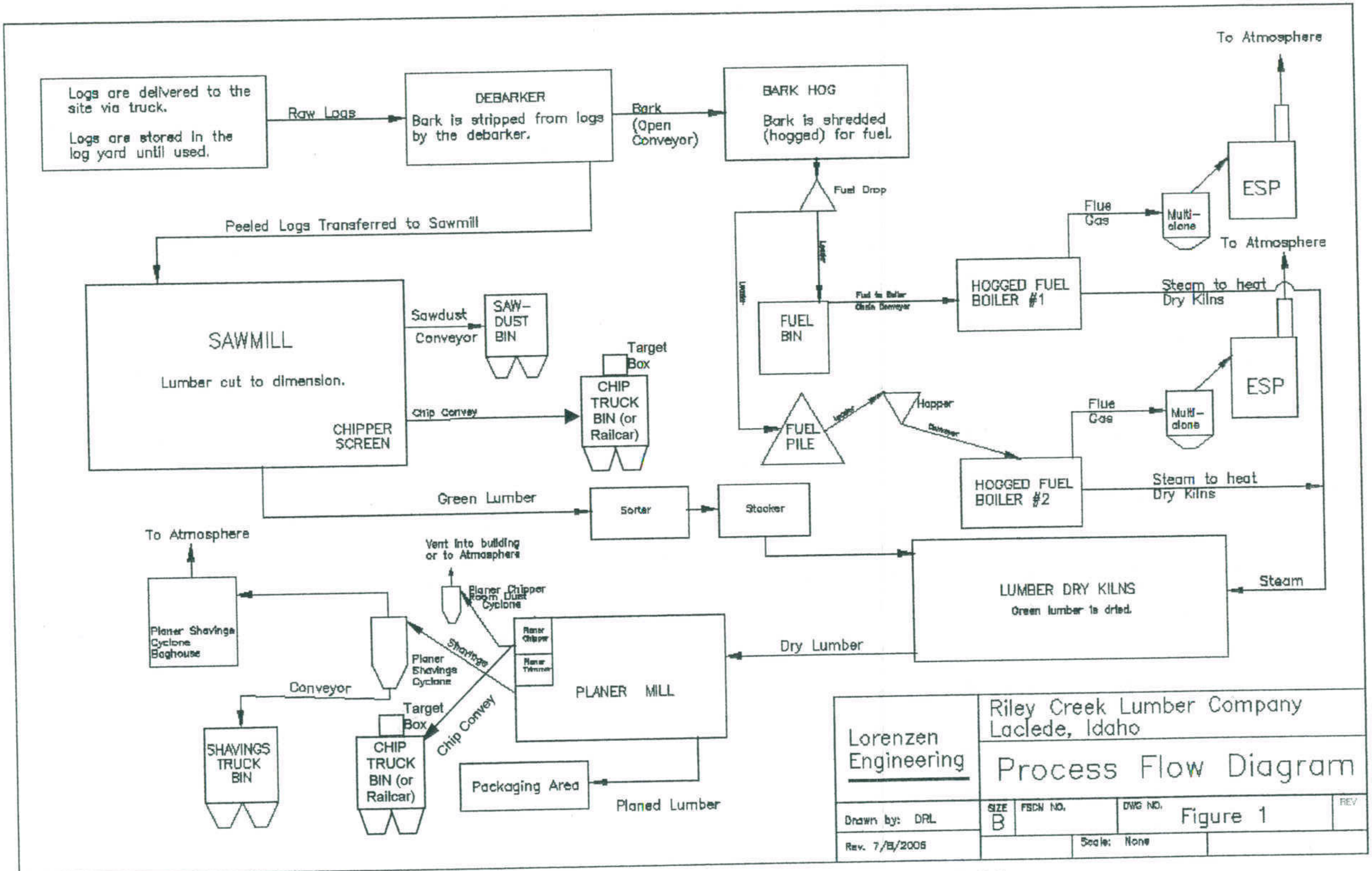
Description	Insignificant Activities IDAPA Citation Section 317.01(b)(l)
Sawmill, Indoor	30
Sawmill Screen (classifier), Indoor	30
Sawmill Chipper, Indoor	30
Planer, Indoor	30
Planer Chipper, Indoor	30
Planer Trimmer, Indoor	30
Planer Shavings Convey	30
Planer Shavings Bin Truck Loadout	30
Planer Chip Bin Target Box - Railcar	30
Fire Water Pump	30 (See Section 10)
Small Generators and Compressors	(6)

There are no monitoring, record keeping or reporting requirements for insignificant emission units or activities beyond those required in Part A (Facility-Wide Conditions) of this permit [IDAPA 58.01.01.322.06].

Process and Emitting Units:

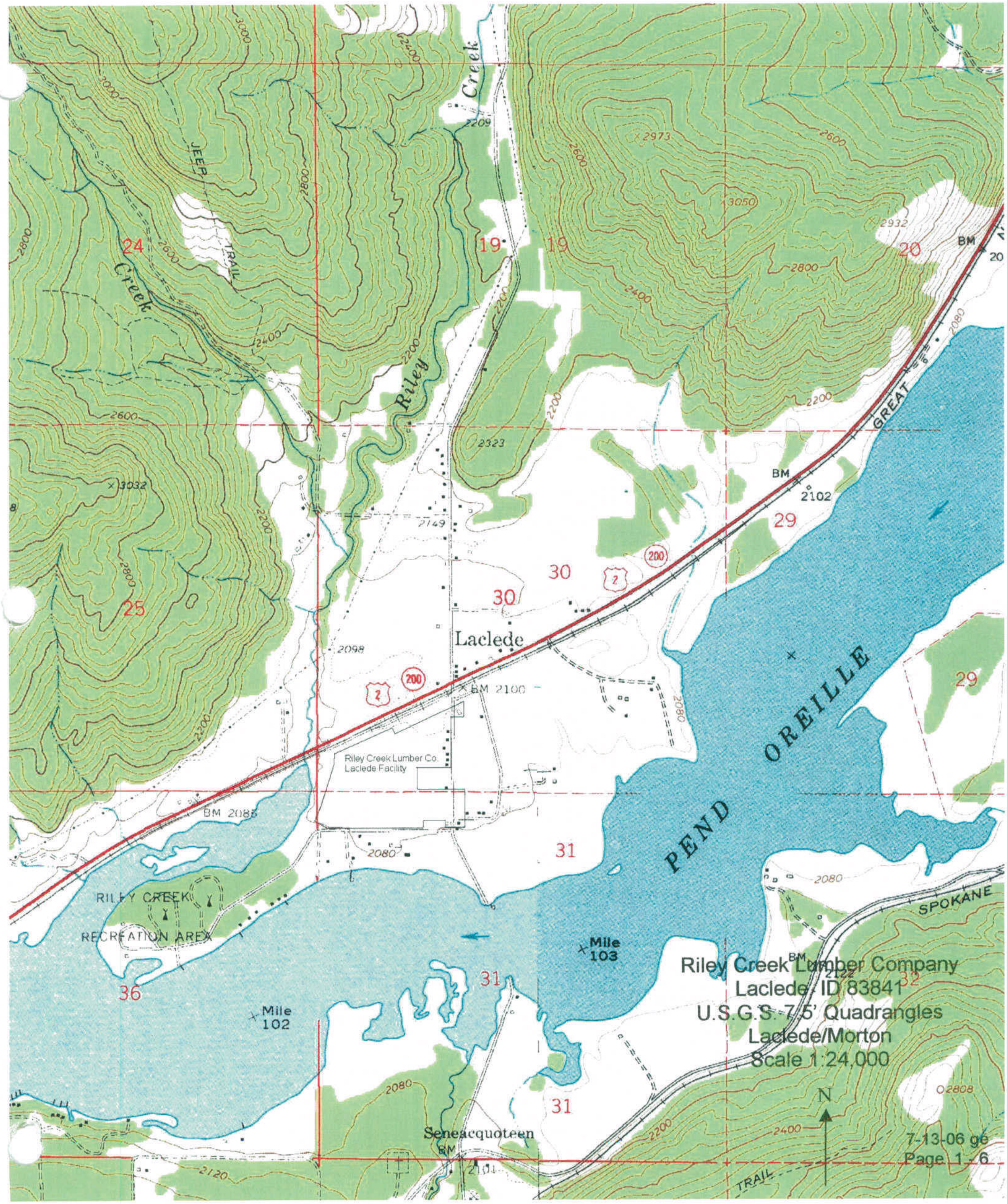
The following table lists the major processes at the facility with associated activities and process rates. These processes are shown in the attached diagram (Figure 1). The listed process rates are used to develop a maximum potential to emit (PTE) estimate for the facility. The estimated process rates do not represent permit limits or increased capacity compared to previous estimates. Riley Creek is using estimated maximum process rates rather than typical process rates.

Source	Annual Potential Process Rate	Permit Section
Steam Plant Boiler #1 - Perry Smith ABCO Hog Fuel Boiler Boiler Boiler #2 - Kipper and Sons Hog Fuel Boiler	44,200 lbs steam/hr 39,200 lbs steam/hr	2 - 1 2 - 2
Log and Bark Processing Debarking Bark Hog	1,500,000 tons logs/year 300,000 tons bark/year	3 - 1 3 - 2
Sawmill Process Sawmill, Indoor Sawmill Screen, Indoor Sawmill Chipper, Indoor	318 MMbdft/year 119,000 tons sawdust/year 223,000 tons chips/year	3 - 3
Lumber Drying Dry Kilns	318 year/year	3 - 4
Planer Process Planer, Indoor Planer Chipper, Indoor Planer Trimmer, Indoor	48,000 tons chips/year 48,000 tons chips/year 48,000 tons chips/year	3 - 5
Hogged Bark Handling Hogged Bark Loading Hogged Bark Fuel Pile	300,000 tons bark/year 300,000 tons bark/year	7 - 1
Sawmill Sawdust Handling Sawdust Convey Sawdust Bin Truck Loadout	119,000 tons sawdust/year 119,000 tons sawdust/year	7 - 2
Sawmill Chip Handling Sawmill Chip Bin Truck Loadout Sawmill Chip Convey - Sawmill to Bin	223,000 tons chips/year 223,000 tons chips/year	7 - 3
Planer Shavings Handling Planer Shavings Cyclone Baghouse Planer Shavings Convey Planer Shavings Bin Truck Loadout	38,500 scfm 95,000 tons shavings/year 95,000 tons shavings/year	7 - 4
Planer Chip Handling Planer Chip Conveying Planer Chip Bin Target Box – Railcar or Truck Planer Chipper Room Dust Cyclone	48,000 tons chips/year 48,000 tons chips/year 3,500 acfm	7 - 5
Paved Area Road Dust Fugitives	See Spreadsheet	8 - 1



Logs are delivered to the site via truck.
Logs are stored in the log yard until used.
Raw Logs
DEBARKER
Bark is stripped from logs by the debarker.
Bark (Open Conveyor)
BARK HOG
Bark is shredded (hogged) for fuel.
Fuel Drop
Peeled Logs Transferred to Sawmill
SAWMILL
Lumber cut to dimension.
CHIPPER SCREEN
Sawdust Conveyor
SAW-DUST BIN
Chip Convey
Target Box
CHIP TRUCK BIN (or Railcar)
FUEL BIN
FUEL PILE
Hopper
HOGGED FUEL BOILER #1
HOGGED FUEL BOILER #2
Flue Gas
Multi-clone
ESP
To Atmosphere
Steam to heat Dry Kilns
Green Lumber
Sorter
Stacker
LUMBER DRY KILNS
Green lumber is dried.
Steam
Dry Lumber
PLANER MILL
Planed Lumber
Packaging Area
Vent into building or to Atmosphere
Planer Chipper Room Dust Cyclone
Shavings
Planer Shavings Cyclone
Chip Convey
Conveyor
SHAVINGS TRUCK BIN
Planer Shavings Cyclone Baghouse
Lorenzen Engineering
Riley Creek Lumber Company
Laclede, Idaho
Process Flow Diagram
Drawn by: DRL
Rev. 7/8/2006
SIZE B
FSCN NO.
DWG NO.
Figure 1
REV
Scale: None

rev. 7-12-06 ge


Riley Creek Lumber Company
Laclede, ID 83841
U.S.G.S. 7.5' Quadrangles
Laclede/Morton
Scale 1:24,000
Laclede
Riley Creek Lumber Co.
Laclede Facility
PEND OREILLE
RILEY CREEK
RECREATION AREA
Riley
Creek
JEEP TRAIL
GREAT
SPOKANE
TRAIL
Seneacquoteen
Mile 102
Mile 103
BM 2100
BM 2085
BM 2102
N
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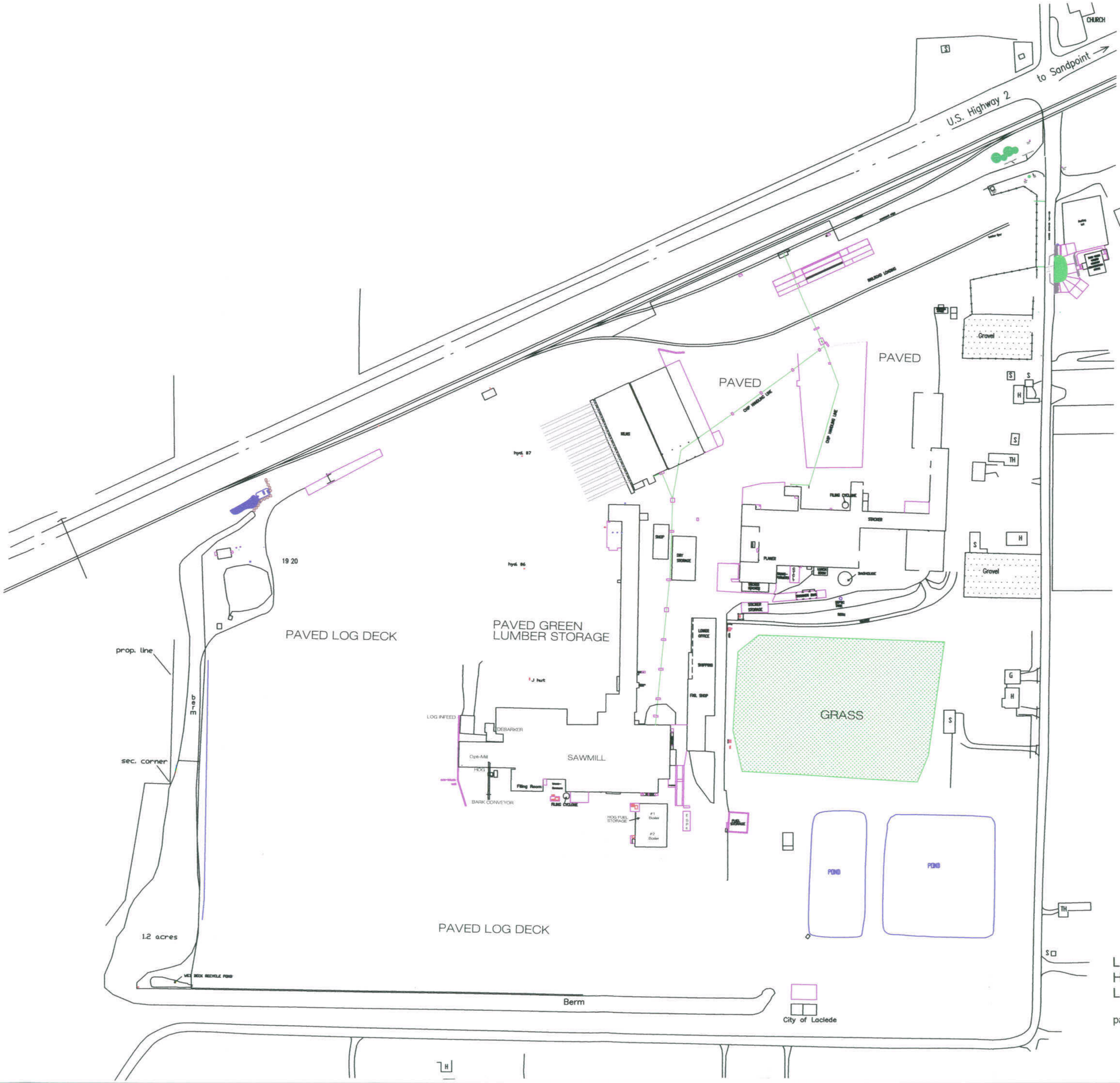
Page 1 - 6


U.S. Highway 2
to Sandpoint →
CHURCH
PAVED
PAVED
Gravel
Gravel
PAVED LOG DECK
PAVED GREEN
LUMBER STORAGE
SAWMILL
GRASS
PAVED LOG DECK
POND
POND
Berm
City of Laclede
prop. line
sec. corner
berm
12 acres
19 20
hyd. 87
hyd. 86
LOG INFEED
DEBARKER
Filing Room
BARK CONVEYOR
HOG FUEL STORAGE
#1 Boiler
#2 Boiler
SHOP
DRY STORAGE
LUMBER OFFICE
SHIPPING
FUEL SHOP
PLANER
STACKER
FILING CYCLONE
CHIP HANDLING LINE
CHIP HANDLING LINE
RAILROAD LOADING
S
H
TH
G

RILEY CREEK

Laclede Sawmill
Hwy 2 & Riley Creek Rd.
Laclede, ID 83841

N

SECTION 2 - 1: FUEL BURNING EQUIPMENT, BOILER #1

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Boiler #1 -- Perry Smith ABCO				
STACK DESCRIPTION	Electrostatic Precipitator Stack				
BUILDING DESCRIPTION	Steam Plant Building				
MANUFACTURER	Perry Smith ABCO	MODEL	NA	DATE INSTALLED	1976
					Boiler Not Modified
				DATE LAST MODIFIED	1998
					ESP Installed

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	NA	1000 LBS STEAM/HR	44.2	KILOWATTS	NA	HORSEPOWER	NA
BURNER TYPE (SEE NOTE BELOW)	01	PERCENT USED FOR PROCESS	100				
		PERCENT USED FOR SPACE HEAT	0				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL NONE	UNITS
FUEL CODE (SEE NOTE BELOW)	07	%		
PERCENT SULFUR	0.03	%		
PERCENT ASH	2.65	%		
PERCENT NITROGEN	0.32	%		
PERCENT CARBON	53.35	%		
PERCENT HYDROGEN	5.71	%		
PERCENT MOISTURE	37.94	%		
HEAT CONTENT (BTU/UNIT)	9.6	mmBtu/ton		
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	70.23	mmBtu/hr		
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	615,000	mmBtu/yr		

NOTES: BURNER TYPE - 01) SPREADER STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE; 05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL); 07) UNDERFEED STOKER; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED; 11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL 06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST; 10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL 14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2-1, PART B, BOILER #1, PERRY SMITH ABCO

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Multiclone	Electrostatic Precipitator (ESP)
TYPE CODE (FROM APP. A)	076	10
MANUFACTURER	Not Available	PPC Industries
MODEL NUMBER	21001-4	Unknown
PRESSURE DROP (IN. OF WATER)	0.5 - 6	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATION (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	Y
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	Unknown
BUILDING/AREA LENGTH (FT)	Unknown
BUILDING/AREA WIDTH (FT)	Unknown

STACK DATA (ESP Stack)

GROUND ELEVATION (FT)	2100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	02
STACK EXIT HEIGHT (FT)	48
STACK EXIT DIAMETER (FT)	4
STACK GAS FLOWRATE (ACFM)	46,000
STACK TEMPERATURE (DEG. F)	500

AIR POLLUTANT EMISSIONS (HOG FUEL BOILER EMITTED FROM ESP STACK)

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		--		--	--	22	96	Permit Limit, Permit #017-00027
PM_{10}		--		--	--	20.6	90	Based on PM Permit Limit
SO_2		0.025	lb/MMBtu	0	1.76	1.76	7.69	AP-42, Table 1.6-2, Rev. 9/03
CO		--		--	--	46.0	203	Permit Limit, Permit #017-00027
NOX		0.22	lb/MMBtu	0	15.4	15.4	67.7	AP-42, Table 1.6-2, Rev. 9/03
VOC		0.017	lb/MMBtu	0	1.19	1.19	5.2	AP-42, Table 1.6-3, Rev. 9/03
LEAD		4.80E-05	lb/MMBtu	0	0.003	0.003	0.014	AP-42, Table 1.6-4, Rev. 9/03

See following spreadsheets for HAPs emissions.

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

ECTION 2 - 2: FUEL BURNING EQUIPMENT, BOILER #2

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Boiler #2 -- Kipper and Sons Company				
STACK DESCRIPTION	Electrostatic Precipitator Stack				
BUILDING DESCRIPTION	Steam Plant Building				
MANUFACTURER	Kipper and Sons Company	MODEL	1101	DATE INSTALLED	1975
				DATE LAST MODIFIED	1997

Boiler Not Modified

ESP Installed

RATED CAPACITY (CHOOSE APPROPRIATE UNITS)

MILLION BTU/HR	NA	1000 LBS STEAM/HR	42.6	KILOWATTS	NA	HORSEPOWER	NA
BURNER TYPE (SEE NOTE BELOW)	01	PERCENT USED FOR PROCESS	100				
		PERCENT USED FOR SPACE HEAT	0				

FUEL DATA

PARAMETER	PRIMARY FUEL	UNITS	SECONDARY FUEL NONE	UNITS
FUEL CODE (SEE NOTE BELOW)	07	%		
PERCENT SULFUR	0.03	%		
PERCENT ASH	2.65	%		
PERCENT NITROGEN	0.32	%		
PERCENT CARBON	53.35	%		
PERCENT HYDROGEN	5.71	%		
PERCENT MOISTURE	37.94	%		
HEAT CONTENT (BTU/UNIT)	9.6	mmBtu/ton		
MAXIMUM HOURLY COMBUSTION RATE (UNITS/HR)	67.7	mmBtu/hr		
NORMAL ANNUAL COMBUSTION RATE (UNITS/YR)	593,000	mmBtu/yr		

NOTES: BURNER TYPE - 01) SPREADER STOKER; 02) CHAIN OR TRAVELING GRATE; 03) HAND FIRED; 04) CYCLONE FURNACE; 05) WET BOTTOM (PULVERIZED COAL); 06) DRY BOTTOM (PULVERIZED COAL); 07) UNDERFEED STOKER; 08) TANGENTIALLY FIRED; 09) HORIZONTALLY FIRED; 10) AXIALLY FIRED; 11) OTHER (SPECIFY)

FUEL CODES - 01) NATURAL GAS; 02) #1 OR #2 FUEL OIL; 03) #4 FUEL OIL; 04) #5 OR #6 FUEL OIL; 05) USED OIL 06) WOOD CHIPS; 07) WOOD BARK; 08) WOOD SHAVINGS; 09) SANDER DUST; 10) SUBBITUMINOUS COAL; 11) BITUMINOUS COAL; 12) ANTHRACITE COAL; 13) LIGNITE COAL 14) PROPANE; 15) OTHER (SPECIFY)

SECTION 2, PART B

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Multiclone	Electrostatic Precipitator (ESP)
TYPE CODE (FROM APP. A)	076	10
MANUFACTURER	Zurn	PPC Industries
MODEL NUMBER	Unknown	Unknown
PRESSURE DROP (IN. OF WATER)	0.5 - 6	N/A
WET SCRUBBER FLOW (GPM)	N/A	N/A
BAGHOUSE AIR/CLOTH RATION (FPM)	N/A	N/A

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	30
BUILDING/AREA LENGTH (FT)	138
BUILDING/AREA WIDTH (FT)	69

STACK DATA (ESP Stack)

GROUND ELEVATION (FT)	2100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	02
STACK EXIT HEIGHT (FT)	50
STACK EXIT DIAMETER (FT)	4
STACK GAS FLOWRATE (ACFM)	42,000
STACK TEMPERATURE (DEG. F)	500

AIR POLLUTANT EMISSIONS (HOG FUEL BOILER EMITTED FROM ESP STACK)

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		--		--	--	12	53	Permit Limit, Permit #0246-0027
PM_{10}		--		--	--	12	53	Permit Limit, Permit #0246-0027
SO_2		0.025	lb/MMBtu	0	1.69	1.69	7.41	AP-42, Table 1.6-2, Rev. 9/03
CO		--		--	--	70.0	306	AP-42, Table 1.6-2, Rev. 9/03
NOX		0.22	lb/MMBtu	0	14.9	14.9	65.2	AP-42, Table 1.6-2, Rev. 9/03
VOC		0.017	lb/MMBtu	0	1.15	1.15	5	AP-42, Table 1.6-3, Rev. 9/03
LEAD		4.80E-05	lb/MMBtu	0	0.003	0.003	0.014	AP-42, Table 1.6-4, Rev. 9/03

See following spreadsheets for HAPs emissions.

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

BOILER #1 PERRY SMITH ABCO- SPREADER-STOKER w/ESP

Design Boiler Capacity	44,200 lb steam/hr, peak hour	Performance Test 5/4/04
	8,760 Hours/Year	
	70.23 mmBtu/hr maximum	

CRITERIA POLLUTANTS

TSP (controlled):		
Emission Factor:	—	
Emissions:	96 tons/year	Permit Limit , Permit #017-00027
	530.4 lbs/day	
	22.1 lbs/hr	
PM10 (controlled):		
Emission Factor:	—	
Emissions:	90 tons/year	Based on PM Permit Limit
	494.4 lbs/day	
	20.6 lbs/hr	
Sulfur Dioxide:		
Emission Factor:	0.025 lb/mmBtu	(AP-42 TABLE 1.6-2, Rev 9/03)
Emissions:	7.69 tons/year	
	42.14 lbs/day	
	1.76 lbs/hr	
Nitrogen Oxides (NOx)		
Emission Factor:	0.22 lb/mmBtu	(AP-42 TABLE 1.6-2, Rev 9/03)
Emissions:	67.7 tons/year	
	370.8 lbs/day	
	15.45 lbs/hr	
Volatile Organic Compounds (VOC)		
Emission Factor:	0.017 lb/mmBtu	(AP-42 TABLE 1.6-3, Rev 9/03)
Emissions:	5.2 tons/year	
	28.7 lbs/day	
	1.19 lbs/hr	
Carbon Monoxide (CO)		
Emission Factor:	—	
Emissions:	203 tons/year	Permit Limit , Permit #017-00027
	1104 lbs/day	
	46 lbs/hr	
Lead (Pb)		
Emission Factor:	4.80E-05 lb/mmBtu	(AP-42 TABLE 1.6-4, Rev 9/03)
Emissions:	1.48E-02 tons/year	
	8.09E-02 lbs/day	
	3.37E-03 lbs/hr	

BOILER #2, KIPPER AND SONS COMPANY BOILER w/ESP

Design Boiler Capacity	39,200 lb steam/hr, peak hour	Permit Limit , Permit #017-00027
	8,760 Hours/Year	
	67.69 mmBtu/hr maximum	

CRITERIA POLLUTANTS

TSP (controlled):		
Emission Factor:	—	
Emissions:	53 tons/year	Permit Limit , Permit #017-00027
	288 lbs/day	
	12 lbs/hr	
PM10 (controlled):		
Emission Factor:	—	
Emissions:	53 tons/year	Permit Limit , Permit #017-00027
	288 lbs/day	
	12 lbs/hr	
Sulfur Dioxide:		
Emission Factor:	0.025 lb/mmBtu	(AP-42 TABLE 1.6-2, Rev 9/03)
Emissions:	7.41 tons/year	
	40.61 lbs/day	
	1.69 lbs/hr	
Nitrogen Oxides (NOx)		
Emission Factor:	0.22 lb/mmBtu	(AP-42 TABLE 1.6-2, Rev 9/03)
Emissions:	65.2 tons/year	
	357.4 lbs/day	
	14.89 lbs/hr	
Volatile Organic Compounds (VOC)		
Emission Factor:	0.017 lb/mmBtu	(AP-42 TABLE 1.6-3, Rev 9/03)
Emissions:	5.0 tons/year	
	27.6 lbs/day	
	1.15 lbs/hr	
Carbon Monoxide (CO)		
Emission Factor:	—	
Emissions:	306 tons/year	Permit Limit , Permit #017-00027
	1680 lbs/day	
	70 lbs/hr	
Lead (Pb)		
Emission Factor:	4.80E-05 lb/mmBtu	(AP-42 TABLE 1.6-4, Rev 9/03)
Emissions:	1.42E-02 tons/year	
	7.80E-02 lbs/day	
	3.25E-03 lbs/hr	

RILEY CREEK - LACLEDE BOILERS

HAZARDOUS AIR POLLUTANTS (HAPS)

Operating Parameters:

Potential Hours of Operation	8,760	hours/yr
Max Heat Input, both Boilers	137.9	mmBtu / hr
Annual Boiler Heat Input	1,208,092	mmBtu / yr

Emission Factors:		Potential Emissions:	
AP-42 Ch.1.6, Tables 1.6-3 and 1.6-4 (9/03), * indicates emission from Riley Creek tests	Emission Factor (lb/mmBtu)	Potential Emissions (lb/hr)	Total Annual Emissions (tons/yr)
Acetaldehyde	8.30E-04	1.14E-01	5.01E-01
Acetophenone	3.20E-09	4.41E-07	1.93E-06
Acrolein	4.00E-03	5.52E-01	2.42E+00
Benzene	4.20E-03	5.79E-01	2.54E+00
Benzo(a)pyrene	2.60E-06	3.59E-04	1.57E-03
bis(2-ethylhexyl)phthalate	4.70E-08	6.48E-06	2.84E-05
Bromomethane (methyl bromide)	1.50E-05	2.07E-03	9.06E-03
2-Butanone (MEK)	5.40E-06	7.45E-04	3.26E-03
Carbon tetrachloride	4.50E-05	6.21E-03	2.72E-02
Chlorine	7.90E-04	1.09E-01	4.77E-01
Chlorobenzene	3.30E-05	4.55E-03	1.99E-02
Chloroform	2.80E-05	3.86E-03	1.69E-02
Chloromethane (Methyl Chloride)	2.30E-05	3.17E-03	1.39E-02
1,2-Dichloroethane	2.90E-05	4.00E-03	1.75E-02
Dichloromethane (Methylenechloride)	2.90E-04	4.00E-02	1.75E-01
1,2-Dichloropropane (Propolyene dichloride)	3.30E-05	4.55E-03	1.99E-02
Ethylbenzene	3.10E-05	4.28E-03	1.87E-02
Formadehyde	4.40E-03	6.07E-01	2.66E+00
Hydrogen chloride*	3.00E-04	4.14E-02	1.81E-01
Methanol	N/A	0.00E+00	0.00E+00
Naphthalene	9.70E-05	1.34E-02	5.86E-02
4-Nitrophenol	1.10E-07	1.52E-05	6.64E-05
Pentachlorophenol	5.10E-08	7.03E-06	3.08E-05
Phenol	5.10E-05	7.03E-03	3.08E-02
Polycyclic Organic Matter (POM)	2.89E-06	3.98E-04	1.74E-03
Benzo(a)anthracene	6.50E-08		
Benzo(a)pyrene	2.60E-06		
Benzo(b)fluoranthene	1.00E-07		
Benzo(k)fluoranthene	3.60E-08		
Indeno(1,2,3,cd)pyrene	8.70E-08		
Styrene	1.90E-03	2.62E-01	1.15E+00
2,3,7,8-Tetrachlorodibenzo-p-dioxins	8.60E-12	1.19E-09	5.19E-09
Toluene	9.20E-04	1.27E-01	5.56E-01
1,1,1-Trichloroethane (Methyl Chloroform)	3.10E-05	4.28E-03	1.87E-02
2,4,6-Trichlorophenol	2.20E-08	3.03E-06	1.33E-05
Vinyl Chloride	1.80E-05	2.48E-03	1.09E-02
o-Xylene	2.50E-05	3.45E-03	1.51E-02
Antimony	7.90E-06	1.09E-03	4.77E-03
Arsenic*	2.00E-06	2.76E-04	1.21E-03
Berylium	1.10E-06	1.52E-04	6.64E-04
Cadmium*	3.00E-06	4.14E-04	1.81E-03
Chromium, total*	1.00E-06	1.38E-04	6.04E-04
Chromium, hexavalent*	1.00E-06	1.38E-04	6.04E-04
Cobalt	6.50E-06	8.96E-04	3.93E-03
Lead*	1.00E-05	1.38E-03	6.04E-03
Manganese*	1.20E-04	1.65E-02	7.25E-02
Mercury*	1.56E-06	2.15E-04	9.42E-04
Nickel	3.30E-05	4.55E-03	1.99E-02
Selenium	2.80E-06	3.86E-04	1.69E-03
	TOTAL HAPS		11.05

TOXIC AIR POLLUTANTS (TAPS)
These compounds are not HAPS.

Emission Factors:			Potential Emissions:	
AP-42 Ch.1.6, Tables 1.6-3 and 1.6-4 (9/03) emission factors	TAP Class (A/B)	Emission Factor (lb/mmBtu)	Potential Emissions (lb/hr)	Total Annual Emissions (tons/yr)
Acetone	B	1.90E-04	2.62E-02	1.15E-01
2-Chlorophenol	B	2.40E-08	3.31E-06	1.45E-05
Crotonaldehyde	B	9.90E-06	1.37E-03	5.98E-03
Copper*	B	1.00E-06	1.38E-04	6.04E-04
Molybdenum	B	2.10E-06	2.90E-04	1.27E-03
Phosphorus	B	2.70E-05	3.72E-03	1.63E-02
Silver*	B	1.00E-06	1.38E-04	6.04E-04
Tin	B	2.30E-05	3.17E-03	1.39E-02
Vanadium	B	9.80E-07	1.35E-04	5.92E-04
Yttrium	B	3.00E-07	4.14E-05	1.81E-04
Zinc*	B	1.50E-04	2.07E-02	9.06E-02

SECTION 3-1: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Debarking				
STACK DESCRIPTION	NONE				
BUILDING DESCRIPTION	NONE				
MANUFACTURER	Nicholson	MODEL	A5	DATE INSTALLED	1994
				DATE LAST MODIFIED	Not modified.

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	ACTUAL ANNUAL RATE	UNITS
INPUT	raw logs			1,500,000	tons/year
PRODUCT OUTPUT	peeled logs				
BYPRODUCT OUTPUT	bark			300,000	tons/year
RECYCLE	NA				

POTENTIAL HAPS IN PROCESSING STREAMS

HAPS DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
None					

SECTION 3-1, PART B, DEBARKING

OPERATING DATA

PERCENT PRODUCTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE, TYPICAL

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	NONE	NONE
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	N/A
BUILDING/AREA LENGTH (FT)	N/A
BUILDING/AREA WIDTH (FT)	N/A

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	05
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
PM		0.02	lb/ton		3.42	3.42	15.0	AIRS
PM_{10}		0.011	lb/ton		1.88	1.88	8.25	AIRS
SO_2								
CO								
NOX								
VOC								
LEAD								

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE

EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 3-2: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Bark Hog				
STACK DESCRIPTION	NONE				
BUILDING DESCRIPTION	NONE				
MANUFACTURER	Jeffery Dresser	MODEL	54 WB Hog	DATE INSTALLED	1983
				DATE LAST MODIFIED	Not modified.

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	ACTUAL ANNUAL RATE	UNITS
INPUT	bark			300,000	tons/year
PRODUCT OUTPUT	hogged bark			300,000	tons/year
WASTE OUTPUT	none				
RECYCLE	NA				

POTENTIAL HAPS IN PROCESSING STREAMS

,APS DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
None					

SECTION 3-2, PART B, BARK HOG

OPERATING DATA

PERCENT PRODUCTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE, TYPICAL

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Enclosure	NONE
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	N/A
BUILDING/AREA LENGTH (FT)	N/A
BUILDING/AREA WIDTH (FT)	N/A

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	05
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
PM		0.01 lb/ton	90%	0.34	0.34	1.5	AIRS
PM_{10}		0.005 lb/ton	90%	0.17	0.17	0.75	AIRS
SO_2							
CO							
NOX							
VOC							
LEAD							

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

LOGS AND BARK, FUGITVE EMISSIONS

DEBARKER

1,500,000 Tons of Logs/Year
8,760 Hours/Year

TSP:			
	Emission Factor:	0.02 lbs/ton	AIRS 3-07-008-01
	Emissions:	15.00 tons/year	
		82.19 lbs/day	
		3.42 lbs/hr	
PM10:			
	Emission Factor:	0.011 lbs/ton	AIRS 3-07-008-01
	Emissions:	8.25 tons/year	
		45.21 lbs/day	
		1.88 lbs/hr	

BARK HOG

300,000 Tons of Bark/Year

TSP:			
	Emission Factor:	0.01 lbs/ton	General Material Handling Factor
	Emissions:	1.50 tons/year	Bark Hog is enclosed, 90% control.
		8.22 lbs/day	
		0.34 lbs/hr	
PM10:			
	Emission Factor:	0.005 lbs/ton	General Material Handling Factor
	Emissions:	0.75 tons/year	Bark Hog is enclosed, 90% control.
		4.11 lbs/day	
		0.17 lbs/hr	

HOG FUEL TRANSFER TO FUEL HOUSE

300,000 Tons of Bark/Year

TSP:			
	Emission Factor:	0.1 lbs/ton	General Material Handling Factor
	Emissions:	15.00 tons/year	
		82.19 lbs/day	
		3.42 lbs/hr	
PM10:			
	Emission Factor:	0.05 lbs/ton	General Material Handling Factor
	Emissions:	7.50 tons/year	
		41.10 lbs/day	
		1.71 lbs/hr	

HOG FUEL LOADING

300,000 Tons of Bark/Year

TSP:			
	Emission Factor:	0.1 lbs/ton	General Material Handling Factor
	Emissions:	15.00 tons/year	
		82.19 lbs/day	
		3.42 lbs/hr	
PM10:			
	Emission Factor:	0.05 lbs/ton	General Material Handling Factor
	Emissions:	7.50 tons/year	
		41.10 lbs/day	
		1.71 lbs/hr	

SECTION 3-3: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Sawmill -- Sawmill, Sawmill Screen (classifier) and Sawmill Chipper				
STACK DESCRIPTION	NONE				
BUILDING DESCRIPTION	Sawmill Building				
MANUFACTURER	Various	MODEL	Various	DATE INSTALLED	1983
				DATE LAST MODIFIED	Not modified

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	ACTUAL ANNUAL RATE	UNITS
INPUT	peeled logs			1,500,000	tons/year
PRODUCT OUTPUT	green lumber			318,000	mbdft/yr
BYPRODUCT OUTPUT	green chips			222,600	tons/year
BYPRODUCT OUTPUT	sawdust			119,250	tons/year

POTENTIAL HAPS IN PROCESSING STREAMS

HAPS DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
None					

SECTION 3-3, PART B, SAWMILL

OPERATING DATA

PERCENT PRODUCTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE, TYPICAL

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Enclosure	NONE
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA (SAWMILL)

ENCLOSED (Y/N)?	Y
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	99
BUILDING HEIGHT (FT)	36
BUILDING/AREA LENGTH (FT)	289
BUILDING/AREA WIDTH (FT)	115

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	05
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	N/A
STACK EXIT DIAMETER (FT)	N/A
STACK EXIT GAS FLOWRATE (ACFM)	N/A
STACK EXIT TEMPERATURE (DEG. F)	

AIR POLLUTANT EMISSIONS (SAWMILL)

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		0.0035	lb/ton logs	99%	0.60	0.60	2.63	Idaho DEQ
PM_{10}		0.002	lb/ton logs	99%	0.34	0.34	1.50	Idaho DEQ

AIR POLLUTANT EMISSIONS (SCREEN)

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		0.01	lb/ton chips	90%	0.25	0.25	1.11	Idaho DEQ
PM_{10}		0.005	lb/ton chips	90%	0.13	0.13	0.56	Idaho DEQ

AIR POLLUTANT EMISSIONS (CHIPPER)

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		0.01	lb/ton chips	90%	0.25	0.25	1.11	Idaho DEQ
PM_{10}		0.005	lb/ton chips	90%	0.13	0.13	0.56	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SAWMILL PROCESSES

SAWMILL, INDOOR

1,500,000 Tons of Logs/Year

TSP:

Emission Factor:	0.35 lbs/ton	Idaho Factor
Corrected Factor:	0.0035 lbs/ton	Indoors with pneumatic dust pickup.
Emissions:	2.63 tons/year	99% removal efficiency.
	14.38 lbs/day	
	0.60 lbs/hr	

PM10:

Emission Factor:	0.2 lbs/ton	Idaho Factor
Corrected Factor:	0.002 lbs/ton	Indoors with pneumatic dust pickup.
Emissions:	1.50 tons/year	99% removal efficiency.
	8.22 lbs/day	
	0.34 lbs/hr	

SAWMILL SCREEN (CLASSIFIER), INDOOR

222,600 Tons of Chips/Year

TSP:

Emission Factor:	0.1 lbs/ton	General Material Handling Factor
Corrected Factor:	0.01 lbs/ton	Enclosed process, 90% control.
Emissions:	1.11 tons/year	
	6.10 lbs/day	
	0.25 lbs/hr	

PM10:

Emission Factor:	0.05 lbs/ton	General Material Handling Factor
Corrected Factor:	0.005 lbs/ton	Enclosed process, 90% control.
Emissions:	0.56 tons/year	
	3.05 lbs/day	
	0.13 lbs/hr	

SAWMILL CHIPPER, INDOOR

222,600 Tons of Chips/Year

TSP:

Emission Factor:	0.1 lbs/ton	General Material Handling Factor
Corrected Factor:	0.01 lbs/ton	Enclosed process, 90% control.
Emissions:	1.11 tons/year	
	6.10 lbs/day	
	0.25 lbs/hr	

PM10:

Emission Factor:	0.05 lbs/ton	General Material Handling Factor
Corrected Factor:	0.005 lbs/ton	Enclosed process, 90% control.
Emissions:	0.56 tons/year	
	3.05 lbs/day	
	0.13 lbs/hr	

SECTION 3-4: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Lumber Drying Kilns				
STACK DESCRIPTION	Multiple roof vents.				
BUILDING DESCRIPTION	Kiln buildings				
MANUFACTURER		MODEL		DATE INSTALLED	Varies
				DATE LAST MODIFIED	Not modified.

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	ACTUAL ANNUAL RATE	UNITS
INPUT	green lumber			318,000	mbdft/yr
PRODUCT OUTPUT	dry lumber			318,000	mbdft/yr
WASTE OUTPUT	none				
RECYCLE	NA				

POTENTIAL HAPS IN PROCESSING STREAMS

HAPS DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
None					

SECTION 3-4, PART B, LUMBER DRYING KILNS

OPERATING DATA

PERCENT PRODUCTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE, TYPICAL

HOURS/DAY	24
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	None	NONE
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	N/A
BUILDING/AREA LENGTH (FT)	N/A
BUILDING/AREA WIDTH (FT)	N/A

STACK DATA (KILN VENTS)

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	05
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	27.5
STACK EXIT DIAMETER (FT)	2.5
STACK EXIT GAS FLOWRATE (ACFM)	15,000
STACK EXIT TEMPERATURE (DEG. F)	170

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
PM		0.11	lb/mbdft	0%	3.99	3.99	17.5	ORCAA
PM_{10}		0.11	lb/mbdft	0%	3.99	3.99	17.5	ORCAA
SO_2								
CO								
NOX								
VOC		0.82	lb/mbdft	0%	29.71	29.71	130	U of O
LEAD								
HAPS	See Spreadsheet							

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

LUMBER DRY KILNS

318,000 mbdft/yr, lumber dried

CRITERIA POLLUTANTS

PM:

Emission Factor:	0.11 lbs/1000 bd.ft.	ORCAA Dry Kiln Factor*
Emissions:	17.49 tons/year	
	95.84 lbs/day	
	3.99 lbs/hr	

PM10 :

Emission Factor:	0.11 lbs/1000 bd.ft.	ORCAA Dry Kiln Factor*
Emissions:	17.49 tons/year	
	95.84 lbs/day	
	3.99 lbs/hr	

* ORCAA is the Olympic Region Clear Air Agency, previously known as the Olympic Air Pollution Control Authority.

VOC:

Emission Factor:	0.82 lbs/1000 bd.ft.	OSU Dry Kiln VOC Study
Emissions:	130.22 tons/year	VOC Emissions based on
	713.54 lbs/day	mix shown below.
	29.73 lbs/hr	

Wood Species:	% of Total	(lb/MBdft)	Weighted (lb/Mbdft)	
Redwood	0%	0.12	0.00	
Cedar	0%	0.12	0.00	
Douglas Fir Sap Wood	0%	0.21	0.00	
Hemlock	0%	0.24	0.00	
Coastal Douglas Fir	0%	0.34	0.00	
Grand Fir	30%	0.53	0.16	HF: Western Hemlock and Grand Fir
* White Fir	0%	0.26	0.00	ES/LP/AF: Englemann Spruce, Lodgepole Pine and Alpine Fir = WW or whitewood
* Douglas Fir Heart Wood	30%	0.46	0.14	FL: Douglas Fir and Western Larch
* Ponderosa Pine	30%	1.38	0.41	PP: Ponderosa Pine only
*Lodgepole Pine	10%	1.08	0.11	(one third of ES/LP/AF)
Sugar Pine		2.07	0.00	
White Pine	0%	2.26	0.00	
Other	0%	1.50	0.00	
Total	100%		**0.82**	

*Factors from 2000 Milota OSU/IFA study. VOCs as carbon lb/mbf

HAZARDOUS AIR POLLUTANTS (HAPS)

PHENOL:

Emission Factor:	0.004 lbs/1000 bd.ft.	ORCAA Dry Kiln Factor*
Emissions:	0.64 tons/year	
	3.48 lbs/day	
	0.15 lbs/hr	

METHANOL:

Emission Factor:	0.039 lbs/1000 bd.ft.	OSU Dry Kiln VOC Study
Emissions:	6.25 tons/year	Methanol emissions based on
	34.24 lbs/day	mix shown below.
	1.43 lbs/hr	

FORMALDEHYDE:

Emission Factor:	0.002 lbs/1000 bd.ft.	OSU Dry Kiln VOC Study
Emissions:	0.30 tons/year	Formaldehyde emissions based on
	1.63 lbs/day	mix shown below.
	0.068 lbs/hr	

Wood Species:		Methanol		Formaldehyde	
	% of Total	(lb/MBdft)	Weighted	(lb/MBdft)	Weighted
Grand Fir**	30%	0.023	0.007	0.001	0.0003
* White Fir	0%	0.122	0.000	0.003	0.0000
* Douglas Fir Heart Wood	30%	0.023	0.007	0.001	0.0003
* Ponderosa Pine	30%	0.065	0.020	0.003	0.0009
*Lodgepole Pine	10%	0.060	0.006	0.004	0.0004
Other	0%	0.060	0.000	0.060	0.0000
Total	100%		**0.039**		**0.0019**

* factors from 2000 Milota OSU/IFA study. VOCs as carbon lb/mbf

** Use Douglas Fir factor for Grand Fir

SECTION 3-5: PROCESS AND MANUFACTURING OPERATIONS

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Planer Processes - Planer Hog, Planer Chipper (classifier) and Planer Trimmer				
STACK DESCRIPTION	No Stacks. All processes located indoors or vented indoors.				
BUILDING DESCRIPTION	Planer Building				
MANUFACTURER	Various	MODEL	Various	DATE INSTALLED	Varies
				DATE LAST MODIFIED	Not modified.

PROCESSING DATA

PROCESS STREAM	MATERIAL DESCRIPTION	MAXIMUM HOURLY RATE	ACTUAL HOURLY RATE	ACTUAL ANNUAL RATE	UNITS
INPUT	dry lumber			318,000	mbdft/yr
PRODUCT OUTPUT	planed lumber			318,000	mbdft/yr
BYPRODUCT OUTPUT	planer chips			47,700	tons
BYPRODUCT OUTPUT	planer shavings			95,400	tons

POTENTIAL HAPS IN PROCESSING STREAMS

HAPS DESCRIPTION	HAP CAS NUMBER	FRACTION IN INPUT STREAM BY WEIGHT	FRACTION IN PRODUCT STREAM BY WEIGHT	FRACTION IN WASTE STREAM BY WEIGHT	FRACTION IN RECYCLE STREAM BY WEIGHT
None					

SECTION 3-5, PART B, PLANER PROCESS

OPERATING DATA

PERCENT PRODUCTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE, TYPICAL

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	None	NONE
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	N/A
HOOD TYPE (FROM APP. B)	N/A
MINIMUM FLOW (ACFM)	N/A
PERCENT CAPTURE EFFICIENCY	N/A
BUILDING HEIGHT (FT)	N/A
BUILDING/AREA LENGTH (FT)	N/A
BUILDING/AREA WIDTH (FT)	N/A

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	na
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	na
STACK EXIT DIAMETER (FT)	na
STACK EXIT GAS FLOWRATE (ACFM)	na
STACK EXIT TEMPERATURE (DEG. F)	na

AIR POLLUTANT EMISSIONS

PLANER, INDOOR

There are no emissions from the planers because they are pneumatically controlled through the shavings transport system.

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)	PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
PM							
PM_{10}							
SO_2							
CO							
NOX							
VOC							
LEAD							

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 7-1: SOLID MATERIAL TRANSPORT, HANDLING, AND STORAGE

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Hogged Bark Handling		
STACK DESCRIPTION	NA		
BUILDING DESCRIPTION			
DATE INSTALLED		DATE LAST MODIFIED	NA
MATERIAL DESCRIPTION	Hogged Bark		

MATERIAL TRANSFER RATES

MAXIMUM HOURLY TRANSFER RATE (UNITS/HOUR)	NA
NORMAL HOURLY TRANSFER RATE (UNITS/HOUR)	NA
NORMAL ANNUAL TRANFER RATE (UNITS/YEAR)	300,000
UNITS OF MEASURE	tons/year

BELT CONVEYOR/VEHICLE TRANSFER - Hog Fuel Convey, Hog Fuel Loading

NUMBER OF TRANSFERS	2	MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	30%	MAXIMUM HOURLY WIND SPEED (MPH)	15
CONVEYORS ENCLOSED? (Y/N)	N	CONVEYORS IN BUILDINGS? (Y/N)	N	AVERAGE HOURLY WIND SPEED (MPH)	9
TRANSFERS ENCLOSED? (Y/N)	N	TRANSFERS IN BUILDINGS? (Y/N)	N		

PNEUMATIC CONVEYOR TRANSFERS -- None

MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)			
PRIMARY SEPARATOR TYPE		PRIMARY SEPARATOR PERCENT EFFICIENCY	
SECONDARY SEPARATOR TYPE		SECONDARY SEPARATOR PERCENT EFFICIENCY	

MATERIAL STORAGE DATA -- Hog Fuel Bunker

PILE? (Y/N)	Y	STORAGE CAPACITY		PILE LENGTH (FT)	
SILO? (Y/N)	N	STORAGE CAPACITY UNITS		PILE WIDTH (FT)	
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	

MATERIAL DATA

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN MATERIAL BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 7-1, PART B, HOGGED BARK HANDLING

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	None	None
TYPE CODE (FROM APP. A)	NA	
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)	na	
WET SCRUBBER FLOW (GPM)	na	
BAGHOUSE AIR/CLOTH RATION (FPM)	na	

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	334.7
STACK TYPE (SEE NOTE BELOW)	na
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	na
STACK EXIT DIAMETER (FT)	na
STACK EXIT GAS FLOWRATE (ACFM)	na
STACK EXIT TEMPERATURE (DEG. F)	na

AIR POLLUTANT EMISSIONS

See calculations on page 3-5.

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
HOG FUEL TRANSFER								
PM		0.1	lb/ton	0%	3.42	3.42	15.0	Idaho DEQ
PM_{10}		0.05	lb/ton	0%	1.71	1.71	7.5	Idaho DEQ
HOG FUEI LOADING								
PM		0.1	lb/ton	0%	3.42	3.42	15.0	Idaho DEQ
PM_{10}		0.05	lb/ton	0%	1.71	1.71	7.5	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE

EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 7-2: SOLID MATERIAL TRANSPORT, HANDLING, AND STORAGE

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Sawmill Sawdust Handling		
STACK DESCRIPTION	NA		
BUILDING DESCRIPTION			
DATE INSTALLED	Varies	DATE LAST MODIFIED	NA
MATERIAL DESCRIPTION	Sawdust		

MATERIAL TRANSFER RATES

MAXIMUM HOURLY TRANSFER RATE (UNITS/HOUR)	unknown
NORMAL HOURLY TRANSFER RATE (UNITS/HOUR)	na
NORMAL ANNUAL TRANFER RATE (UNITS/YEAR)	119,250
UNITS OF MEASURE	tons/year

BELT CONVEYOR/VEHICLE TRANSFER - Sawdust Conveying, Sawdust Bin Truck Loadout

NUMBER OF TRANSFERS	2	MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	45%	MAXIMUM HOURLY WIND SPEED (MPH)	15
CONVEYORS ENCLOSED? (Y/N)	N	CONVEYORS IN BUILDINGS? (Y/N)	N	AVERAGE HOURLY WIND SPEED (MPH)	9
TRANSFERS ENCLOSED? (Y/N)	N	TRANSFERS IN BUILDINGS? (Y/N)	N		

PNEUMATIC CONVEYOR TRANSFERS -- None

MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)			
PRIMARY SEPARATOR TYPE		PRIMARY SEPARATOR PERCENT EFFICIENCY	
SECONDARY SEPARATOR TYPE		SECONDARY SEPARATOR PERCENT EFFICIENCY	

MATERIAL STORAGE DATA -- Sawdust truck bin.

PILE? (Y/N)	N	STORAGE CAPACITY	45 Units	PILE LENGTH (FT)	NA
SILO? (Y/N)	Y	STORAGE CAPACITY UNITS	200 ft^3/unit	PILE WIDTH (FT)	NA
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	NA

MATERIAL DATA

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN MATERIAL BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 7-2, PART B, SAWDUST HANDLING

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	None	
TYPE CODE (FROM APP. A)		
MANUFACTURER		
MODEL NUMBER		
PRESSURE DROP (IN. OF WATER)		
WET SCRUBBER FLOW (GPM)		
BAGHOUSE AIR/CLOTH RATION (FPM)		

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	na
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	na
STACK EXIT DIAMETER (FT)	na
STACK EXIT GAS FLOWRATE (ACFM)	na
STACK EXIT TEMPERATURE (DEG. F)	na

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
SAWDUST CONVEYING								
PM		0.1	lb/ton	na	1.36	1.36	5.96	Idaho DEQ
PM_{10}		0.05	lb/ton	na	0.68	0.68	2.98	Idaho DEQ
SAWDUST BIN TRUCK LOADOUT								
PM		0.1	lb/ton	na	1.36	1.36	5.96	Idaho DEQ
PM_{10}		0.05	lb/ton	na	0.68	0.68	2.98	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE

EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 7-3: SOLID MATERIAL TRANSPORT, HANDLING, AND STORAGE

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Sawmill Chip Handling		
STACK DESCRIPTION	NA		
BUILDING DESCRIPTION	NA		
DATE INSTALLED	varies	DATE LAST MODIFIED	NA
MATERIAL DESCRIPTION	Green Chips		

MATERIAL TRANSFER RATES

MAXIMUM HOURLY TRANSFER RATE (UNITS/HOUR)	unknown
NORMAL HOURLY TRANSFER RATE (UNITS/HOUR)	na
NORMAL ANNUAL TRANFER RATE (UNITS/YEAR)	222,600
UNITS OF MEASURE	tons/year

BELT CONVEYOR/VEHICLE TRANSFER - Sawmill Chip Convey, Sawmill Chip Bin Truck Loadout

NUMBER OF TRANSFERS	2	MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	30%	MAXIMUM HOURLY WIND SPEED (MPH)	15
CONVEYORS ENCLOSED? (Y/N)	N	CONVEYORS IN BUILDINGS? (Y/N)	N	AVERAGE HOURLY WIND SPEED (MPH)	9
TRANSFERS ENCLOSED? (Y/N)	N	TRANSFERS IN BUILDINGS? (Y/N)	N		

PNEUMATIC CONVEYOR TRANSFERS -- None

MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)			
PRIMARY SEPARATOR TYPE		PRIMARY SEPARATOR PERCENT EFFICIENCY	
SECONDARY SEPARATOR TYPE		SECONDARY SEPARATOR PERCENT EFFICIENCY	

MATERIAL STORAGE DATA -- Chip truck bin.

PILE? (Y/N)	N	STORAGE CAPACITY	45 Units	PILE LENGTH (FT)	NA
SILO? (Y/N)	Y	STORAGE CAPACITY UNITS	200 ft^3/unit	PILE WIDTH (FT)	NA
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	NA

MATERIAL DATA

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN MATERIAL BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 7-3, PART B, SAWMILL CHIP HANDLING

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	None	None
TYPE CODE (FROM APP. A)	na	
MANUFACTURER	na	
MODEL NUMBER	na	
PRESSURE DROP (IN. OF WATER)	na	
WET SCRUBBER FLOW (GPM)	na	
BAGHOUSE AIR/CLOTH RATION (FPM)	na	

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	na
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	na
STACK EXIT DIAMETER (FT)	na
STACK EXIT GAS FLOWRATE (ACFM)	na
STACK EXIT TEMPERATURE (DEG. F)	na

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (TONS/YR)	REFERENCE
CHIP CONVEY								
PM		0.1	lb/ton	na	2.54	2.54	11.13	Idaho DEQ
PM_{10}		0.05	lb/ton	na	1.27	1.27	5.57	Idaho DEQ
CHIP BIN TRUCK LOADOUT								
PM		0.1	lb/ton	na	2.54	2.54	11.13	Idaho DEQ
PM_{10}		0.05	lb/ton	na	1.27	1.27	5.57	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SAWMILL PROCESSES (cont.)

SAWDUST CONVEYING

119,250 Tons of Sawdust/Year

TSP:			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	5.96 tons/year	Site observations show that emissions are similar to
		32.67 lbs/day	target box emissions for the same material.
		1.36 lbs/hr	
PM10:			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	2.98 tons/year	Site observations show that emissions are similar to
		16.34 lbs/day	target box emissions for the same material.
		0.68 lbs/hr	

SAWDUST BIN TRUCK LOADOUT

119,250 Tons of Sawdust/Year

TSP:			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	5.96 tons/year	Site observations show that emissions are similar to
		32.67 lbs/day	target box emissions for the same material.
		1.36 lbs/hr	
PM10:			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	2.98 tons/year	Site observations show that emissions are similar to
		16.34 lbs/day	target box emissions for the same material.
		0.68 lbs/hr	

SAWMILL PNEUMATIC CHIP CONVEYING TO RAIL CAR OR TRUCK

222,600 Tons of Chips/Year

TSP:			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	11.13 tons/year	Site observations show that emissions are similar to
		60.99 lbs/day	target box emissions for the same material.
		2.54 lbs/hr	
PM10:			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	5.57 tons/year	Site observations show that emissions are similar to
		30.49 lbs/day	target box emissions for the same material.
		1.27 lbs/hr	

SAWMILL CHIP BIN TRUCK LOADOUT OR RAIL CAR LOADOUT

222,600 Tons of Chips/Year

TSP :			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	11.13 tons/year	Site observations show that emissions are similar to
		60.99 lbs/day	target box emissions for the same material.
		2.54 lbs/hr	
PM10 :			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	5.57 tons/year	Site observations show that emissions are similar to
		30.49 lbs/day	target box emissions for the same material.
		1.27 lbs/hr	

SECTION 7-4: SOLID MATERIAL TRANSPORT, HANDLING, AND STORAGE

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Planer Shavings Handling			
STACK DESCRIPTION	Planer Shavings Cyclone Baghouse			
BUILDING DESCRIPTION				
DATE INSTALLED	Varies	DATE LAST MODIFIED	Jun-02	Baghouse Installed
MATERIAL DESCRIPTION	Planer shavings			

MATERIAL TRANSFER RATES

MAXIMUM HOURLY TRANSFER RATE (UNITS/HOUR)	unknown	
NORMAL HOURLY TRANSFER RATE (UNITS/HOUR)	na	
NORMAL ANNUAL TRANFER RATE (UNITS/YEAR)	60,000	planer shavings
UNITS OF MEASURE	tons/year	

BELT CONVEYOR/VEHICLE TRANSFER - Shavings truck bin loadout.

NUMBER OF TRANSFERS	1	MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	<25%	MAXIMUM HOURLY WIND SPEED (MPH)	
CONVEYORS ENCLOSED? (Y/N)	na	CONVEYORS IN BUILDINGS? (Y/N)	na	AVERAGE HOURLY WIND SPEED (MPH)	
TRANSFERS ENCLOSED? (Y/N)	Y	TRANSFERS IN BUILDINGS? (Y/N)	N		

PNEUMATIC CONVEYOR TRANSFERS -- Planer shavings cyclone baghouse.

MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	<25%		
PRIMARY SEPARATOR TYPE	cyclone	PRIMARY SEPARATOR PERCENT EFFICIENCY	>95%
SECONDARY SEPARATOR TYPE	baghouse	SECONDARY SEPARATOR PERCENT EFFICIENCY	>99%

MATERIAL STORAGE DATA -- Planer shavings truck bin.

PILE? (Y/N)	N	STORAGE CAPACITY	45 Units	PILE LENGTH (FT)	NA
SILO? (Y/N)	Y	STORAGE CAPACITY UNITS	200 ft^3/unit	PILE WIDTH (FT)	NA
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	NA

MATERIAL STORAGE DATA -- Planer chip truck bin.

PILE? (Y/N)	N	STORAGE CAPACITY	45 Units	PILE LENGTH (FT)	NA
SILO? (Y/N)	Y	STORAGE CAPACITY UNITS	200 ft^3/unit	PILE WIDTH (FT)	NA
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	NA

MATERIAL DATA

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN MATERIAL BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 7-4, PART B, PLANER SHAVINGS HANDLING

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	16
DAY/WEEK	7
WEEKS/YEAR	52

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Baghouse	none
TYPE CODE (FROM APP. A)	018	
MANUFACTURER	Western Pneumatics	
MODEL NUMBER	F630BAG1NR3A	
PRESSURE DROP (IN. OF WATER)	na	
WET SCRUBBER FLOW (GPM)	na	
BAGHOUSE AIR/CLOTH RATION (FPM)	na	

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA -- Baghouse is vented into planer building.

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	04
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	20
STACK EXIT DIAMETER (FT)	2
STACK EXIT GAS FLOWRATE (ACFM)	50,000
STACK EXIT TEMPERATURE (DEG. F)	80

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PLANER SHAVINGS CYCLONE BAGHOUSE								
PM		0.005	gr/dscf	>99%	2.14	2.14	9.39	Idaho DEQ
PM_{10}		0.005	gr/dscf	>99%	2.14	2.14	9.39	Idaho DEQ
SHAVINGS BIN TRUCK LOADOUT					(LBS/HR)			
PM		0.1	lb/ton	0%	0.68	0.68	3.00	Idaho DEQ
PM_{10}		0.05	lb/ton	0%	0.34	0.34	1.5	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

SECTION 7-5: SOLID MATERIAL TRANSPORT, HANDLING, AND STORAGE

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

PROCESS CODE OR DESCRIPTION	Planer Chips Handling		
STACK DESCRIPTION	Planer chip Bin Target Box - Railcar or Truck Bin		
BUILDING DESCRIPTION			
DATE INSTALLED	Varies	DATE LAST MODIFIED	na
MATERIAL DESCRIPTION	Planer chips		

MATERIAL TRANSFER RATES

MAXIMUM HOURLY TRANSFER RATE (UNITS/HOUR)	unknown	
NORMAL HOURLY TRANSFER RATE (UNITS/HOUR)	na	
NORMAL ANNUAL TRANFER RATE (UNITS/YEAR)	30,000	planer chips
UNITS OF MEASURE	tons/year	

BELT CONVEYOR/VEHICLE TRANSFER - Planer Chip Loadout - Railcar or Truck Bin

NUMBER OF TRANSFERS	1	MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	<25%	MAXIMUM HOURLY WIND SPEED (MPH)	
CONVEYORS ENCLOSED? (Y/N)	na	CONVEYORS IN BUILDINGS? (Y/N)	na	AVERAGE HOURLY WIND SPEED (MPH)	
TRANSFERS ENCLOSED? (Y/N)	N	TRANSFERS IN BUILDINGS? (Y/N)	N		

PNEUMATIC CONVEYOR TRANSFERS -- Planer Chip Bin Target Box - Railcar or Truck Bin

MATERIAL MOISTURE CONTENT (WEIGHT PERCENT)	<25%		
PRIMARY SEPARATOR TYPE	target box	PRIMARY SEPARATOR PERCENT EFFICIENCY	>95%
SECONDARY SEPARATOR TYPE		SECONDARY SEPARATOR PERCENT EFFICIENCY	

MATERIAL STORAGE DATA -- Planer chip truck bin.

PILE? (Y/N)	N	STORAGE CAPACITY	45 Units	PILE LENGTH (FT)	NA
SILO? (Y/N)	Y	STORAGE CAPACITY UNITS	200 ft^3/unit	PILE WIDTH (FT)	NA
OTHER STORAGE TYPE DESCRIPTION				PILE HEIGHT (FT)	NA

MATERIAL DATA

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN MATERIAL BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 7- 5, PART B, PLANER CHIPS HANDLING

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER		OPERATING SCHEDULE	
DEC-FEB	25	HOURS/DAY	16
MAR-MAY	25	DAY/WEEK	7
JUN-AUG	25	WEEKS/YEAR	52
SEP-NOV	25		

POLLUTION CONTROL EQUIPMENT

PARAMETER	PRIMARY	SECONDARY
TYPE	Cyclone	
TYPE CODE (FROM APP. A)	075	
MANUFACTURER	Unknown	
MODEL NUMBER	Unknown	
PRESSURE DROP (IN. OF WATER)	na	
WET SCRUBBER FLOW (GPM)	na	
BAGHOUSE AIR/CLOTH RATION (FPM)	na	

VENTILATION AND BUILDING/AREA DATA

ENCLOSED (Y/N)?	
HOOD TYPE (FROM APP. B)	
MINIMUM FLOW (ACFM)	
PERCENT CAPTURE EFFICIENCY	
BUILDING HEIGHT (FT)	
BUILDING/AREA LENGTH (FT)	
BUILDING/AREA WIDTH (FT)	

STACK DATA -- Baghouse is vented into planer building.

GROUND ELEVATION (FT)	2,100
UTM X COORDINATE (KM)	518.2
UTM Y COORDINATE (KM)	5,334.7
STACK TYPE (SEE NOTE BELOW)	04
STACK EXIT HEIGHT FROM GROUND LEVEL (FT)	10
STACK EXIT DIAMETER (FT)	1
STACK EXIT GAS FLOWRATE (ACFM)	3,500
STACK EXIT TEMPERATURE (DEG. F)	80

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PLANER CHIP TARGET BOX								
PM		0.1	lb/ton	0%	0.68	0.68	3.00	Idaho DEQ
PM_{10}		0.05	lb/ton	0%	0.34	0.34	1.5	Idaho DEQ
CHIP BIN TRUCK OR RAILCAR LOADOUT					(LBS/HR)			
PM		0.1	lb/ton	0%	0.68	0.68	3.00	Idaho DEQ
PM_{10}		0.05	lb/ton	0%	0.34	0.34	1.5	Idaho DEQ
PLANER CHIPPER ROOM DUST CYCLONE					(LBS/HR)			
PM		0.03	gr/dscf	>95%	0.9	0.9	3.94	Idaho DEQ
PM_{10}		0.015	gr/dscf	>95%	0.45	0.45	1.97	Idaho DEQ

NOTE: STACK TYPE - 01) DOWNWARD; 02) VERTICAL (UNCOVERED); 03) VERTICAL (COVERED); 04) HORIZONTAL; 05) FUGITIVE

EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

PLANER PROCESSES

PLANER, INDOOR

There are no emissions from the planers because they are pneumatically controlled through the shavings transport system.

PLANER SHAVINGS CYCLONE BAGHOUSE

Planer shavings are transferred pneumatically to the cyclone and baghouse.

		50,000 scfm	Rated Flow
		8760 hours/yr	Potential
TSP :			
	Emission Factor:	0.005 gr/dscf	Guaranteed Baghouse Emission Rate
	Emissions:	9.39 tons/year	
		51.43 lbs/day	
		2.14 lbs/hr	
PM10 :			
	Emission Factor:	0.005 gr/dscf	Guaranteed Baghouse Emission Rate
	Emissions:	9.39 tons/year	
		51.43 lbs/day	
		2.14 lbs/hr	

PLANER SHAVINGS BIN TRUCK LOADOUT

60,000 Tons of Planer Shavings/Year

TSP :			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Factor
	Emissions:	3.00 tons/year	
		16.44 lbs/day	
		0.68 lbs/hr	
PM10 :			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Factor.
	Emissions:	1.50 tons/year	
		8.22 lbs/day	
		0.34 lbs/hr	

PLANER CHIP BIN TARGET BOX - RAILCAR OR TRUCK BIN

30,000 Tons of Planer Chips/Year

TSP :			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Target Box Factor
	Emissions:	1.50 tons/year	
		8.22 lbs/day	
		0.34 lbs/hr	
PM10 :			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Factor.
	Emissions:	0.75 tons/year	
		4.11 lbs/day	
		0.17 lbs/hr	

PLANER CHIPS LOADOUT - RAILCAR OR TRUCK BIN

60,000 Tons of Planer Chips/Year

TSP :			
	Emission Factor:	0.1 lbs/ton	Idaho DEQ Factor
	Emissions:	3.00 tons/year	
		16.44 lbs/day	
		0.68 lbs/hr	
PM10 :			
	Emission Factor:	0.05 lbs/ton	Idaho DEQ Factor.
	Emissions:	1.50 tons/year	Sides of loadout blocked from wind, 50% control.
		8.22 lbs/day	
		0.34 lbs/hr	

PLANER CHIPPER ROOM DUST CYCLONE

		3,500 scfm	Rated Flow
		8760 hours/yr	Potential
TSP :			
	Emission Factor:	0.03 gr/dscf	Idaho cyclone emission factor
	Emissions:	3.94 tons/year	
		21.60 lbs/day	
		0.90 lbs/hr	
PM10 :			
	Emission Factor:	0.015 gr/dscf	Idaho cyclone emission factor
	Emissions:	1.97 tons/year	
		10.80 lbs/day	
		0.45 lbs/hr	

SECTION 8 - 1: FUGITIVE PAVED ROAD DUST SOURCES

DEQ USE ONLY

DEQ PLANT ID CODE		DEQ PROCESS CODE		DEQ STACK ID CODE	
DEQ BUILDING ID CODE		PRIMARY SCC		SECONDARY SCC	
DEQ SEGMENT CODE					

PART A: GENERAL INFORMATION

ROAD DESCRIPTION	Paved Roads	PAVED? (Y/N)	Y			
LENGTH (FT)	See plot plan.	BEGINNING COORDINATES		END COORDINATES		
		UTM-X (KM)	UTM-Y (KM)	UTM-X (KM)	UTM-Y (KM)	
WIDTH (FT)	See plot plan	See plot plan.	NA	NA	NA	

DATA FOR ALL ROADS - PAVED

VEHICLE DESCRIPTION	NUMBER OF ROUNDTRIPS PER DAY	VEHICLE MILES TRAVELED PER DAY	NUMBER OF DAYS PER YEAR USED	AVERAGE VEHICLE SPEED (MPH)	SURFACE SILT CONTENT (% WEIGHT)
Log Trucks	165	33	260	6	1
Log Loaders	80	12	260	6	
Chip Trucks	14	3	260	6	
Shavings Trucks	5	1	260	6	
Sawdust Trucks	7	2	260	6	
Lumber Trucks	31	8	260	6	
Loaders	>1000	151	260	6	
Misc. Vehicles, incl. employees'	206	51	260	6	

DATA FOR ALL ROADS - PAVED

VEHICLE DESCRIPTION	VEHICLE EMPTY WEIGHT (TONS)	VEHICLE FULL WEIGHT (TONS)
Log Trucks	13	40
Log Loaders	20	15
Chip Trucks	13	40
Shavings Trucks	13	40
Sawdust Trucks	13	40
Lumber Trucks	13	40
Loaders	15	20
Misc. Vehicles, incl. employees'	3	3

ROAD DUST CHEMICALS

HAP DESCRIPTION	HAP CAS NUMBER	HAP FRACTION IN IN ROAD DUST BY WEIGHT
NONE		
NONE		
NONE		
NONE		
NONE		
NONE		

SECTION 8-1, PART B, PAVED ROADS

OPERATING DATA

PERCENT FUEL CONSUMPTION PER QUARTER

DEC-FEB	25
MAR-MAY	25
JUN-AUG	25
SEP-NOV	25

OPERATING SCHEDULE

HOURS/DAY	16
DAY/WEEK	5
WEEKS/YEAR	52

FUGITIVE DUST CONTROL DATA

PARAMETER	PRIMARY	SECONDARY
CONTROL DESCRIPTION	Water	Sweeper / Vacuum Truck
CONTROL CODE (FROM APPENDIX A)	na	na
MINIMUM DAILY APPLICATIONS OF CONTROL	0	0
MAXIMUM DAILY APPLICATIONS OF CONTROL	12	4
AVERAGE ANNUAL APPLICATIONS OF CONTROL	varies	varies
AMOUNT APPLIED (UNITS/APPLICATION)	3000	2
UNITS FOR APPLICATION AMOUNT	gallons	hours

AIR POLLUTANT EMISSIONS

POLLUTANT	CAS NUMBER	EMISSION FACTOR (SEE BELOW)		PERCENT CONTROL EFFICIENCY	ESTIMATED OR MEASURED EMISSIONS (LBS/HR)	ALLOWABLE EMISSIONS (LBS/HR)	(TONS/YR)	REFERENCE
PM		0.392	lb/VMT	na			19.1	AP-42
PM_{10}		0.076	lb/VMT	na			3.70	AP-42

NOTE: IN LBS/UNIT, USE UNITS OF VEHICLE MILES TRAVELED (VMT)
EMISSION FACTOR IN LBS/UNITS. PLEASE USE SAME HOURLY UNITS GIVEN IN FUEL DATA SECTION.

Fugitive Dust - PAVED ROADS

Calculations based on AP-42 Section 13.2.1.3, rev. 12/03

Source	Class	Number Trips Per Year	Distance per Trip (miles)	VMT per Year	Avg. Vehicle Weight W	Weighted Vehicle Weight
Log Trucks	Paved, Loaded	53,571	0.20	10,714	40	4.41
	Paved, Empty	53,571	0.20	10,714	13	1.43
Log Loaders	Paved, Loaded	30,000	0.15	4,500	20	0.93
	Paved, Empty	30,000	0.15	4,500	15	0.69
Chip Trucks	Paved, Loaded	9,464	0.25	2,366	40	0.97
	Paved, Empty	9,464	0.25	2,366	13	0.32
Shavings Trucks	Paved, Loaded	4,676	0.25	1,169	40	0.48
	Paved, Empty	4,676	0.25	1,169	13	0.16
Sawdust Trucks	Paved, Loaded	4,175	0.25	1,044	40	0.43
	Paved, Empty	4,175	0.25	1,044	13	0.14
LumberTrucks	Paved, Loaded	17,667	0.25	4,417	40	1.82
	Paved, Empty	17,667	0.25	4,417	13	0.59
Bucket Loaders	Paved, Loaded	100,000	0.15	15,000	15	2.32
	Paved, Empty	100,000	0.15	15,000	12	1.85
Misc. Vehicles incl employee	Paved	75,000	0.25	18,750	3	0.58
		514,109		97,170		17

E=k(sL/2)^0.65(w/3)^1.5 - C

	PM	PM10	PM2.5
k =	0.082	0.016	0.004
sL=	0.4	0.4	0.4
W =	17	17	15
C =	0.00047	0.00047	0.00047
E=	0.392 lb/VMT	0.076 lb/VMT	0.015 lb/VMT

Total PM Emissions:	**19.1**	**tpy**
Total PM10 Emissions:	**3.70**	**tpy**
Total PM2.5 Emissions:	**0.74**	**tpy**

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
001	TITLE AND SCOPE General Applicability	None Required	NA	X	
002	WRITTEN INTERPRETATIONS General Applicability	None Required	NA	X	
003	ADMINISTRATIVE APPEALS General Applicability	None Required	NA	X	
004	CATCHLINES General Applicability	None Required	NA	X	
005	DEFINITIONS General Applicability	None Required	NA	X	
006	GENERAL DEFINITIONS General Applicability	None Required	NA	X	
007	DEFINITIONS FOR THE PURPOSES OF SECTIONS 200 THROUGH 223 AND 400 THROUGH 461 General Applicability	None Required	NA	X	
008	DEFINITIONS FOR THE PURPOSES OF SECTIONS 300 THROUGH 386 General Applicability	None Required	NA	X	
009	DEFINITIONS FOR THE PURPOSES OF 40 CFR PART 60 General Applicability	None Required	NA	X	
010	DEFINITIONS FOR THE PURPOSES OF 40 CFR PART 61 AND 40 CFR PART 63 General Applicability	None Required	NA	X	
106	ABBREVIATIONS General Applicability	None Required	NA	X	
107	INCORPORATION BY REFERENCE General Applicability	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
121	COMPLIANCE REQUIREMENTS BY DEPARTMENT General Applicability	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
122	INFORMATION ORDERS BY THE DEPARTMENT General Applicability	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
123	CERTIFICATION OF DOCUMENTS General Applicability	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
124	TRUTH, ACCURACY AND COMPLETENESS OF DOCUMENTS General Applicability	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
125	FALSE STATEMENTS General Applicability	None Required	NA	X	
126	TAMPERING General Applicability	None Required	NA	X	
127	FORMAT OF RESPONSES General Applicability	None Required	NA	X	
128	CONFIDENTIAL INFORMATION General Applicability	None Required	NA	X	
130	STARTUP, SHUTDOWN, SCHEDULED MAINTENANCE, SAFETY MEASURES, UPSET AND BREAKDOWN	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
131	EXCESS EMISSIONS	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
132	CORRECTION OF CONDITION	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
133	STARTUP, SHUTDOWN AND SCHEDULED MAINTENANCE REQUIREMENTS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
134	UPSET, BREAKDOWN AND SAFETY REQUIREMENTS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
135	EXCESS EMISSIONS REPORTS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
136	EXCESS EMISSIONS RECORDS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
140-149	VARIANCE PROCEDURES AND PETITIONS General Applicability	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
155	CIRCUMVENTION General Applicability	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
156	TOTAL COMPLIANCE General Applicability	None Required	NA	X	
157	TEST METHODS AND PROCEDURES General Applicability	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
160	PROVISIONS GOVERNING SPECIFIC ACTIVITIES AND CONDITIONS General Applicability	None Required	NA	X	
161	TOXIC SUBSTANCES	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
162	MODIFYING PHYSICAL CONDITIONS General Applicability	None Required	NA	X	
163	SOURCE DENSITY General Applicability	None Required	NA	X	
300	PROCEDURES AND REQUIREMENTS FOR TIER I OPERATING PERMITS General Applicability	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
301	REQUIREMENT TO OBTAIN TIER I OPERATING PERMIT General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
302	OPTIONAL TIER I OPERATING PERMIT General Applicability	None Required	NA	X	
311	STANDARD PERMIT APPLICATIONS General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
312	DUTY TO APPLY General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
313	TIMELY APPLICATION General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
314	REQUIRED STANDARD APPLICATION FORM AND REQUIRED INFORMATION General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
315	DUTY TO SUPPLEMENT OR CORRECT APPLICATION General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
316	EFFECT OF INACCURATE INFORMATION IN APPLICATIONS OR FAILURE TO SUBMIT RELEVANT INFORMATION General Applicability	None Required	NA	X	
317	INSIGNIFICANT ACTIVITIES General Applicability	None Required	NA	X	
321	TIER I OPERATING PERMIT CONTENT General Applicability to Tier I Sources	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
322	STANDARD CONTENTS OF TIER I OPERATING PERMITS General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
325	ADDITIONAL CONTENTS OF TIER I OPERATING PERMITS - PERMIT SHIELD General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
332	EMERGENCY AS AN AFFIRMATIVE DEFENSE REGARDING EXCESS EMISSIONS General Applicability to Tier I Sources	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
335	GENERAL TIER I OPERATING PERMITS AND AUTHORIZATIONS TO OPERATE	None Required	NA	X	
360	STANDARD PROCESSING OF TIER I OPERATING PERMIT APPLICATIONS General Applicability to Tier I Sources	None Required.	NA	X	
361	COMPLETENESS OF APPLICATIONS General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
362	TECHNICAL MEMORANDUMS FOR TIER I OPERATING PERMITS General Applicability	None Required	NA	X	
363	PREPARATION OF DRAFT PERMIT OR DRAFT DENIAL General Applicability	None Required	NA	X	
364	PUBLIC NOTICES, COMMENTS AND HEARINGS General Applicability	None Required	NA	X	
365	PREPARATION OF PROPOSED PERMIT OR PROPOSED DENIAL General Applicability	None Required	NA	X	
366	EPA REVIEW PROCEDURES General Applicability	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
367	ACTION ON APPLICATION General Applicability	None Required	NA	X	
368	EXPIRATION OF PRECEDING PERMITS General Applicability	None Required	NA	X	
369	TIER I OPERATING PERMIT RENEWAL General Applicability to Tier I Sources	None Required	NA	X	
380	CHANGES TO TIER I OPERATING PERMITS General Applicability to Tier I Sources	None Required	NA	X	
381	ADMINISTRATIVE PERMIT AMENDMENTS General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
382	SIGNIFICANT PERMIT MODIFICATION General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
383	MINOR PERMIT MODIFICATION General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
384	SECTION 502(b)(10) CHANGES AND CERTAIN EMISSION TRADES General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
385	OF-PERMIT CHANGES AND NOTICES General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
386	REOPENING FOR CAUSE General Applicability to Tier I Sources	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
440	REQUIREMENTS FOR ALTERNATIVE EMISSION LIMITS (BUBBLES)	None Required	NA	X	
441	DEMONSTRATION OF AMBIENT EQUIVALENCE	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
460	REQUIREMENTS FOR EMISSION REDUCTION CREDIT	None Required	NA	X	
461	REQUIREMENTS FOR BANKING EMISSION REDUCTION CREDITS (ERCs)	None Required	NA	X	
510	STACK HEIGHTS AND DISPERSION TECHNIQUES	None Required	NA	X	
511	APPLICABILITY	None Required	NA	X	
512	DEFINITIONS	None Required	NA	X	
513	REQUIREMENTS	None Required	NA	X	
515	APPROVAL OF FIELD STUDIES AND FLUID MODELS	None Required	NA	X	
516	NO RESTRICTION ON ACTUAL STACK HEIGHT	None Required	NA	X	
525	REGISTRATION AND REGISTRATION FEES	None Required	NA	X	
526	APPLICABILITY	None Required	NA	X	
527	REGISTRATION	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
528	REQUEST FOR INFORMATION	None Required	NA	X	
530	REGISTRATION FEE	Paid according to requirements.	NA	X	
531	REGISTRATION BY THE DEPARTMENT	Information provided as requested.	NA	X	
532	PAYMENT DUE	Paid according to requirements.	NA	X	
533	EFFECT OF DELINQUENCY ON APPLICATIONS	Paid according to requirements.	NA	X	
534	APPEALS	None Required	NA	X	
535	AMENDING REGISTRATION	Paid according to requirements.	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
536	CHECKS SHOULD BE MADE OUT TO "DEPARTMENT OF HEALTH AND WELFARE - AQ REGISTRATION FEE"	Paid according to requirements.	NA	X	
538	LUMP SUM PAYMENTS OF REGISTRATION FEES	Paid according to requirements.	NA	X	
550	AIR POLLUTION EMERGENCY RULE	Information provided as requested.	NA	X	
561	GENERAL RULES	Information provided as requested.	NA	X	
562	SPECIFIC EMERGENCY EPISODE ABATEMENT PLANS FOR POINT SOURCES	Information provided as requested.	NA	X	
575	AIR QUALITY STANDARDS AND AREA CLASSIFICATION	Information/reporting provided as requested.	NA	X	
576	GENERAL PROVISIONS FOR AMBIENT AIR QUALITY STANDARDS	Information/reporting provided as requested.	NA	X	
577	AMBIENT AIR QUALITY STANDARDS FOR SPECIFIC AIR POLLUTANTS	Information provided as requested.	NA	X	
587	LISTING OR DELISTING TOXIC AIR POLLUTANT INCREMENTS	None Required	NA	X	
591	NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
600	RULES FOR CONTROL OF OPEN BURNING	None Required	NA	X	
601	FIRE PERMITS, HAZARDOUS MATERIALS AND LIABILITY	None Required	NA	X	
602	NONPREEMPTION OF OTHER JURISDICTIONS	None Required	NA	X	
603	GENERAL RESTRICTIONS	None Required	NA	X	
608	WEED CONTROL FIRES	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
625	VISIBLE EMISSIONS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
650	RULES FOR CONTROL OF FUGITIVE DUST	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
651	GENERAL RULES	None Required	NA	X	
675	FUEL BURNING EQUIPMENT - PARTICULATE MATTER	Recordkeeping and reporting will constitute on-going compliance.	Hog Fuel Boilers	X	
677	STANDARDS FOR MINOR SOURCES AND EXISTING SOURCES	Recordkeeping and reporting will constitute on-going compliance.	Hog Fuel Boilers	X	
678	COMBINATION OF FUELS	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
679	AVERAGING PERIOD	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
680	ALTITUDE CORRECTION	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
681	TEST METHODS AND PROCEDURES General Applicability	Permit application, recordkeeping and reporting will constitute on-going compliance.	NA	X	
700	PARTICULATE MATTER - PROCESS WEIGHT LIMITATIONS	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
701	PARTICULATE MATTER - NEW EQUIPMENT PROCESS WEIGHT LIMITATIONS	Recordkeeping and reporting will constitute on-going compliance.	NA	X	
702	PARTICULATE MATTER - EXISTING EQUIPMENT PROCESS WEIGHT LIMITATIONS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
703	PARTICULATE MATTER - OTHER PROCESSES	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	
726	DEFINITIONS AS USED IN SECTIONS 727 THROUGH 729	None Required	NA	X	

APPLICABILITY CHECKLIST, IDAHO REGULATIONS

Citation Under IDAPA 58.01.01	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Emission Unit Affected	Compliance Yes or No	
728	DISTILLATE FUEL OIL	None Required	NA	X	
775	RULES FOR CONTROL OF ODORS	None Required	NA	X	
776	GENERAL RULES	None Required	NA	X	
785	RULES FOR CONTROL OF INCINERATORS	None Required	NA	X	
786	EMISSION LIMITS	None Required	NA	X	
787	EXCEPTIONS	None Required	NA	X	
808	FUGITIVE DUST CONTROL	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	

Citation Under Federal Regulations	Title, Description of Requirements or Standards, and Other Information Necessary to Determine Applicability, Implement or Enforce Requirements	Compliance Determination Method (Recordkeeping, Monitoring, Reporting, Test Method)	Affected Emission Unit	Compliance Yes or No	
40 CFR Part 50	NATIONAL PRIMARY AND SECONDARY AMBIENT AIR QUALITY STANDARDS	Recordkeeping and reporting will constitute on-going compliance.	Plant-wide	X	

REQUEST FOR DETERMINATION OF NONAPPLICABILITY

Riley Creek Lumber Company seeks a determination of nonapplicability for New Source Performance Standards (NSPS) Subpart Dc, Standards for Small Industrial Steam Generating Units. Riley Creek's hog-fuel Boiler #1 was built in 1976 and has not been modified or reconstructed since June 9, 1989, which is the trigger date for NSPS Subpart Dc. Riley Creek's hog-fuel Boiler #2 was originally built in 1975 and has not been modified or reconstructed, per NSPS definitions, since June 9, 1989, which is the trigger date for NSPS Subpart Dc.

COMPLIANCE PLAN (per IDAPA 58.01.01.314)

Emission Unit	Name of Pollutant	Method of Recordkeeping	Frequency of Reporting
Logs and Bark Fugitive Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Sawmill Processes Fugitive Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Planer Processes Fugitive Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Paved Road Dust Fugitive Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Lumber Drying Kilns Point Source Emissions	Opacity, PM_{10}, VOCs	Annual record of hours of operation. Annual record of production.	Annual
Planer Dust Cyclone Point Source Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Planer Shavings Cyclone Baghouse, Point Source Emissions	Opacity, PM_{10}	Annual record of hours of operation. Annual record of production.	Annual
Hog Fuel Boilers (2) Point Source Emissions	Opacity, PM_{10} SO_2, NOX, VOCs CO, HAPs	Annual record of hours of operation. Annual record of production.	Annual

Air Quality

TIER I OPERATING PERMIT

State of Idaho
Department of Environmental Quality

PERMIT NO.: 017-00027

AQCR: 63 **CLASS:** A

SIC: 2421 **ZONE:** 11

UTM COORDINATE (km): 518 . 2 , 5334 . 7

1. **PERMITTEE**
   Riley Creek Lumber Co.

2. **PROJECT**
   Tier I Operating Permit

3. **MAILING ADDRESS**	**CITY**	**STATE**	**ZIP**
P.O. Box 220	Laclede	ID	83841
4. **FACILITY CONTACT**	**TITLE**	**TELEPHONE**	
Steve Spletstoser	Operations Manager	(208) 263-7574	
5. **RESPONSIBLE OFFICIAL**	**TITLE**	**TELEPHONE**	
Marc Brinkmeyer	Owner	(208) 263-7574	
6. **EXACT PLANT LOCATION**		**COUNTY**	
SW ¼ SE ¼ Section 30, Township 56 North, Range 5 West		Bonner	

7. **GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**
   Sawmill – Dimensional lumber

8. **PERMIT AUTHORITY**

This Tier I operating permit is issued pursuant to Idaho Code §39-115 and the *Rules for the Control of Air Pollution in Idaho*, IDAP A 58.01.01.300 through 386. The permittee shall comply with the terms and conditions of this permit.

This permit incorporates all applicable terms and conditions of prior air quality permits issued by the Idaho Department of Environmental Quality (Department) for the permitted source; unless the permittee emits toxic pollutants subject to state-only requirements pursuant to IDAPA 58.01.01.210, and the permittee elects not to incorporate those terms and conditions into this operating permit.

The effective date of this permit is the date of signature by the Department on the cover page.

KATHERINE B. KELLY, ADMINISTRATOR, AIR QUALITY DIVISION
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: May 3, 2002

DATE EXPIRES: May 3, 2007

TABLE OF CONTENTS

1. FACILITY-WIDE CONDITIONS

The following table contains a summary of requirements that apply generally to emissions units at the facility.

Table 1.1 Facility-wide Permit Conditions Summary

Permit Conditions	Parameter	Permit Limit/ Standard Summary	Applicable Requirements Reference	Monitoring, Recordkeeping, and Reporting Requirements
1.1	Fugitive emissions	Reasonable control	IDAPA 58.01.01.650-651	1.2, 1.3, 1.4, 1.17, 1.18
1.5	Odors	No emissions of odorous gas, liquids, or solids	IDAPA 58.01.01.775-776	1.6, 1.17, 1.18
1.7	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	1.8, 1.17, 1.18
1.9	Excess emissions	Compliance with IDAPA 58.01.01.130-136	IDAPA 58.01.01.130-136	1.9.1-1.9.5, 1.17, 1.18
1.10	Open burning	Compliance with IDAPA 58.01.01.600-616	IDAPA 58.01.01.600-616	1.10
1.11	Renovation and demolition	Compliance with 40 CFR 61 Subpart M	40 CFR 61 Subpart M	1.11
1.12	Chemical accident prevention	Compliance with 40 CFR 68	40 CFR 68	1.12
1.13	Fuel-burning equipment	Compliance with IDAPA 58.01.01.676-677	IDAPA 58.01.01.676	1.13
1.14	Sulfur content	0.3% or less for No. 1 fuel 0.5% or less for No. 2 fuel	IDAPA 58.01.01.728	1.14

Fugitive Emissions

1.1 All reasonable precautions shall be taken to prevent particulate matter from becoming airborne in accordance with IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 5/1/94]

1.2 Unless specified elsewhere in this permit, the permittee shall monitor and maintain records of the frequency and the method(s) used (i.e., water, chemical dust suppressants, etc.) to reasonably control fugitive emissions.

[IDAPA 58.01.01.322.06, 07, 5/1/94]

1.3 Unless specified elsewhere in this permit, the permittee shall maintain records of all fugitive dust complaints received. The permittee shall take appropriate corrective action as expeditiously as practicable after receipt of a valid complaint. The records shall, at a minimum, include the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94]

1.4 Unless specified elsewhere in this permit, the permittee shall conduct a monthly facility-wide inspection of potential sources of fugitive emissions during daylight hours and under normal operating conditions to ensure that the methods used to reasonably control fugitive emissions are effective. If fugitive emissions are not being reasonably controlled, the permittee shall take corrective action as expeditiously as practicable. The permittee shall maintain records of the results of each monthly fugitive emission inspection. The records shall, at a minimum, include the date of each inspection and a description of the following: the permittee's assessment of the conditions existing at the time fugitive emissions were present (if observed), any corrective action taken in response to the fugitive emissions, and the date the corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Odors

1.5 No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

[IDAPA 58.01.01.775-776, 5/1/94]

1.6 Unless specified elsewhere in this permit, the permittee shall maintain records of all odor complaints received. If the complaint has merit, the permittee shall take appropriate corrective action as expeditiously as practicable. The records shall, at a minimum, include the date each complaint was received and a description of the following: the complaint, the permittee's assessment of the validity of the complaint, any corrective action taken, and the date the corrective action was taken.

[IDAPA 58.01.01.322.06, 07 (state-only), 5/1/94]

Visible Emissions

1.7 No person shall discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason(s) for the failure of the emission to comply with the requirements of this section.

[IDAPA 58.01.01.625, 4/5/00]

1.8 Unless specified elsewhere in this permit, the permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions during daylight hours and under normal operating conditions. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either take appropriate corrective action as expeditiously as practicable, or perform a Method 9 opacity test within 48 hours and in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20% for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136. The permittee shall maintain records of the results of each quarterly visible emissions inspection and each opacity test when conducted. The records shall, at a minimum, include the date and results of each inspection and test and a description of the following: the permittee's assessment of the conditions existing at the time visible emissions are present (if observed), any corrective action taken in response to the visible emissions, and the date corrective action was taken.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Excess Emissions

1.9 Unless specified elsewhere in this permit, the permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between the subsections of Permit Condition 1.9 and the regulations of IDAPA 58.01.01.130-136.

1.9.1 The person responsible for, or in charge of, a facility during an excess emissions event shall, with all practicable speed, initiate and complete appropriate, reasonable action to correct the conditions causing such an excess emissions event; to reduce the frequency of occurrence of such events; to minimize the amount by which the emission standard is exceeded; and shall, as provided below or upon request of the Department, submit a full report of such occurrence, including a statement of all known causes, and of the scheduling and nature of the actions to be taken.

[IDAPA 58.01.01.132, 4/5/00]

1.9.2 In all cases where startup, shutdown, or scheduled maintenance of any equipment or emission unit is expected to result or results in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.133.01(a) through (d), including, but not limited to the following:

[IDAPA 58.01.01.133, 4/5/00]

- A prohibition of any scheduled startup, shutdown, or maintenance resulting in excess emissions shall occur during any period in which an Atmospheric Stagnation Advisory and/or a Wood Stove Curtailment Advisory has been declared by the Department.

[IDAPA 58.01.01.133.01.a, 3/20/97]

- Notifying the Department of the excess emissions event as soon as reasonably possible, but no later than two hours prior to the start of the excess emission event, unless the owner or operator demonstrates to the Department's satisfaction that a shorter advanced notice was necessary.

[IDAPA 58.01.01.133.01.b, 4/5/00]

- The owner or operator of a source of excess emissions shall report and record the information required pursuant to Permit Conditions 1.9.4 and 1.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event due to startup, shutdown, or scheduled maintenance.

[IDAPA 58.01.01.133.01.c, 3/20/97]

1.9.3 In all cases where upset or breakdown of equipment or an emissions unit, or the initiation of safety measures, results or may result in an excess emissions event, the owner or operator of the facility or emissions unit generating the excess emissions shall demonstrate compliance with IDAPA 58.01.01.134.01(a) and (b) and the following:

[IDAPA 58.01.01.134, 4/5/00]

1.9.3.1 For all equipment or emissions units from which excess emissions result during upset or breakdown conditions, or for other situations that may necessitate the implementation of safety measures which cause excess emissions, the facility owner or operator shall comply with the following:

[IDAPA 58.01.01.134.02, 4/5/00]

- The owner or operator shall immediately undertake all appropriate measures to reduce and, to the extent possible, eliminate excess emissions resulting from the event and to minimize the impact of such excess emissions on the ambient air quality and public health.

[IDAPA 58.01.01.134.02.a, 4/5/00]

- The owner or operator shall notify the Department of any upset, breakdown, or safety event that results in excess emissions. Such notification shall identify the time, specific location, equipment or emissions unit involved, and (to the extent known) the cause(s) of the occurrence. The notification shall be given as soon as reasonably possible, but no later than 24 hours after the event, unless the owner or operator demonstrates to the Department's satisfaction that the longer reporting period was necessary.

[IDAPA 58.01.01.134.02.b, 4/5/00]

- The owner or operator shall report and record the information required pursuant to Permit Conditions 1.9.4 and 1.9.5 and IDAPA 58.01.01.135 and 136 for each excess emissions event caused by an upset, breakdown, or safety measure.

[IDAPA 58.01.01.134.02.c, 3/20/97]

1.9.3.2 During any period of excess emissions caused by upset, breakdown, or operation under facility safety measures, the Department may require the owner or operator to immediately reduce or cease operation of the equipment or emissions unit causing the excess emissions until such time as the condition causing the excess emissions has been corrected or brought under control. Such action by the Department shall be taken upon consideration of the factors listed in IDAPA 58.01.01.134.03 and after consultation with the facility owner or operator.

[IDAPA 58.01.01.134.03, 4/5/00]

1.9.4 A written report for each excess emissions event shall be submitted to the Department by the owner or operator no later than 15 days after the beginning of each such event. Each report shall contain the information specified in IDAPA 58.01.01.135.02.

[IDAPA 58.01.01.135.01, 3/20/97; IDAPA 58.01.01.135.02, 4/5/00]

1.9.5 The owner or operator shall maintain excess emissions records at the facility for the most recent five-calendar-year period. The excess emissions records shall be made available to the Department upon request. The excess emissions records shall include the information requested by IDAPA 58.01.01.136.03(a) and (b) as summarized in the following:

[IDAPA 58.01.01.136.01, 02, 3/20/97; IDAPA 58.01.01.136.03, 4/5/00]

- An excess emissions record book for each emissions unit or piece of equipment containing copies of all reports that have been submitted to the Department pursuant to IDAPA 58.01.01.135 for the particular emissions unit or equipment; and

[IDAPA 58.01.01.136.03.a, 4/5/00]

- Copies of all startup, shutdown, and scheduled maintenance procedures and upset, breakdown, or safety preventative maintenance plans that have been developed by the owner or operator in accordance with IDAPA 58.01.01.133 and 134, and facility records as necessary to demonstrate compliance with such procedures and plans.

[IDAPA 58.01.01.136.03.b, 3/20/97; IDAPA 58.01.01.130-136, 4/5/00 (state-only; federally enforceable upon approval into the SIP); IDAPA 58.01.01.322.08.b (3/23/98)]

Open Burning

1.10 The permittee shall comply with the requirements of IDAPA 58.01.01.600-616, *Rules for Control of Open Burning*.

[IDAPA 58.01.01.600-616, 5/1/94]

Renovation/Demolition

1.11 The permittee shall comply with all applicable portions of 40 CFR 61 Subpart M, when conducting any renovation or demolition activities at the facility.

[40 CFR 61 Subpart M]

Regulated Substances for Accidental Release Prevention

1.12 An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR 68.10 (a)]

Fuel-burning Equipment

1.13 Unless specified elsewhere in the permit, the following shall apply to fuel-burning equipment at the facility:

- For fuel-burning equipment commencing operation on or after October 1, 1979, with a rated input of 10 million British thermal units per hour (MMBtu/hr) or more, the permittee shall not discharge to the atmosphere PM in excess of 0.015 grains per dry standard cubic foot (gr/dscf) of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676, 5/1/94]

Sulfur Content

1.14 No person shall sell, distribute, use, or make available for use any distillate fuel oil containing more than the following percentages of sulfur:

- ASTM Grade 1 fuel oil - 0.3% by weight.
- ASTM Grade 2 fuel oil - 0.5% by weight.

[IDAPA 58.01.01.728, 5/1/94]

Compliance Testing

1.15 If testing is required, the permittee shall provide notice of intent to test to the Department at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by Department approval. The Department may, at its option, have an observer present at any emissions tests conducted on a source. The Department requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior Department approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written Department approval for any testing deviations, the Department may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any compliance test, the permittee is encouraged to submit in writing to the Department, at least 30 days in advance, the following for approval:

- The type of test method to be used.
- Any extenuating or unusual circumstances regarding the proposed test.
- The proposed schedule for conducting and reporting the test.

Within 30 days following the date in which a compliance test required by this permit is concluded, the permittee shall submit to the Department a compliance test report for the respective test. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to:

Air Quality Permit Compliance
Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Pkwy.
Coeur d'Alene, ID 83814
(208) 769-1422 Fax: (208) 769-1404

[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

Test Methods

1.16 If testing is required, the permittee shall use the test methods described in Table 1.2 to measure the pollutant emissions.

Table 1.2 EPA Reference Test Methods

Pollutant	Test Method	Special Conditions
PM_{10}[a]	EPA Method 201.a and Method 202[b]	
PM[c]	EPA Method 5	
NO_x[d]	EPA Method 7	
SO_2[e]	EPA Method 6	
CO[f]	EPA Method 10	
VOC[g]	EPA Method 25	
Opacity	EPA Method 9	If an NSPS[h] source, IDAPA 58.01.01.625 and Method 9; otherwise, IDAPA 58.01.01.625 only.

a. as defined by IDAPA 58.01.01.006.72
b. or Department-approved alternative in accordance with IDAPA 58.01.01.157
c. particulate matter
d. oxides of nitrogen
e. sulfur dioxide
f. carbon monoxide
g. volatile organic compound
h. New Source Performance Standards

Monitoring and Recordkeeping

1.17 The permittee shall maintain sufficient recordkeeping to assure compliance with all of the terms and conditions of this operating permit. Recording of monitoring information shall include, but not be limited to: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94]

Reports and Certifications

1.18 All periodic reports and certifications required by this permit shall be submitted to the Department within 30 days of the end of each specified reporting period. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to:

Air Quality Permit Compliance
Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814

The periodic compliance certification required by General Provision 21 shall also be submitted to the Environmental Protection Agency (EPA) within 30 days of the end of the specified reporting period, at the following address:

EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101

[IDAPA 58.01.01.322.08, 11, 5/1/94]

2. PERRY SMITH ABCO - WOOD-FIRED BOILER, BOILER NO. 1

Summary Description

The following is a narrative description of boiler No. 1 regulated in this Tier I operating permit. This description is for informational purposes only.

Boiler No. 1 was manufactured in 1976, and was first permitted for operation at Brand S Corp. on February 1, 1978 (Air Pollution Source Permit No. 0240-0027). Riley Creek Lumber purchased Brand S Corp. some time after 1979 and subsequently permitted the boiler on March 1, 1984 (Air Pollution Source Permit No. 0240-0027). The boiler's rated heat capacity is 70.23 MMBtu/hr, and it is fired on wood fuel exclusively. The boiler is located in the steam plant building and operates 24 hours per day, seven days per week, 52 weeks per year.

Table 2.1 below describes the control devices used in controlling emissions from boiler No. 1.

Table 2.1 Emissions Units and Emissions Control Devices

Emission Unit(s) / Process(es)	Emission Control Device
Perry Smith ABCO	One multiclone and one ESP[a] in series

a. electrostatic precipitator

Table 2.2 contains a summary of the requirements that apply to boiler No. 1. Specific permit requirements are listed below Table 2.2.

Table 2.2 Boiler No. 1 Emissions and Applicable Requirements Summary

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring, Recordkeeping, and Recording Requirements
2.1	Particulate matter	0.200 gr/dscf[a] at 8% oxygen	IDAPA 58.01.01.677	2.11, 2.12, 2.13, 2.18, 2.19
2.2	Carbon monoxide	46 lb/hr[b] and 203 T/yr[c]	PTC No. 017-00027	2.11, 2.12, 2.14, 2.18, 2.19
2.3	Particulate matter	22 lb/hr and 96 T/yr	PTC No. 017-00027	2.11, 2.12, 2.15, 2.18, 2.19
2.4	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	2.17, 2.21
2.5	Steaming rate	40,200 lb/hr	PTC No. 017-00027	2.11, 2.18
2.10	ESP voltage and amperage	Manufacturer and O&M[d] manual specifications	PTC No. 017-00027	2.16, 2.20

a. grains per dry standard cubic foot
b. pound(s) per hour
c. ton(s) per year
d. operations and maintenance

Permit Limits / Standard Summary

2.1 A person shall not discharge to the atmosphere from any fuel-burning equipment in operation prior to October 1, 1979, or with a maximum rated input of less than 10 MMBtu/hr, PM in excess of 0.200 gr/dscf corrected to 8% oxygen.

[IDAPA 58.01.01.677, 5/1/94; Permit to Construct (PTC) No. 017-00027, 6/26/01]

2.2 Carbon monoxide emissions from the boiler No. 1 stack shall not exceed 46 pounds per hour (lb/hr) or 203 tons per year (T/yr).

[PTC No. 017-00027, 6/26/01]

2.3 Particulate matter emissions from the boiler No. 1 stack shall not exceed 22 lb/hr or 96 T/yr.

[PTC No. 017-00027, 6/26/01]

2.4 The permittee shall comply with Permit Condition 1.7.

[IDAPA 58.01.01.625, 4/5/00; PTC No. 017-00027, 6/26/01]

2.5 The maximum steaming rate of boiler No. 1 shall not exceed 40,200 lb/hr of steam, averaged over a three-hour period. The allowable steaming rate can be modified by conducting a source test(s), which demonstrates compliance with applicable standards.

[PTC No. 017-00027, 6/26/01]

2.6 The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer specifications, equipment to measure the steam production rate of boiler No. 1.

[PTC No. 017-00027, 6/26/01]

2.7 The permittee shall install, maintain in good working order, and operate as efficiently as practical, in accordance with manufacturer specifications, an electrostatic precipitator (ESP) on the No. 1 boiler stack to control PM emissions from the No. 1 boiler.

[PTC No. 017-00027, 6/26/01]

2.8 The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer specifications, equipment to continuously measure the voltage and amperage applied by each transformer-rectification (T/R) set to the discharge electrodes and each ESP field.

[PTC No. 017-00027, 6/26/01]

2.9 In accordance with PTC No. 017-00027, dated June 26, 2001, the permittee shall have developed an operations and maintenance (O&M) manual for the ESP according to manufacture specifications and recommendations. This manual shall describe the methods and procedures that will be followed to assure the ESP is maintained in good working order and operated as efficiently as practical. The manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 017-00027, 6/26/01]

2.10 The voltage and amperage applied by each T/R set to the discharge electrodes shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual voltage and amperage specifications shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 017-00027, 6/26/01]

Monitoring & Recordkeeping Requirements

2.11 The permittee shall monitor and record hourly, the steam production rate of boiler No. 1. The steam production rate shall be recorded as pounds per hour (lb/hr). Boiler No. 1 steam production rate records shall be kept at the facility for the most recent five-year period and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94; PTC No. 017-00027, 6/26/01]

2.12 Within the first year of the five-year Tier I operating permit term, the permittee shall conduct a performance test for PM and CO as specified in Permit Condition 1.15. The steaming rate of the boiler shall be monitored and recorded during the performance test.

[IDAPA 58.01.01.322.06(c), (d), 08(a), 09, 5/1/94; PTC No. 017-00027, 6/26/01]

2.13 If the particulate grain loading measured in the initial performance test is less than or equal to 75% of the emission standard in IDAPA 58.01.01.677, no further testing shall be required during the permit term. If the particulate grain loading measured during the initial performance test is greater than 75%, but less than or equal to 90% of the emission standard in IDAPA 58.01.01.677, a second test shall be required in the third year of the permit term. If the initial particulate grain loading measured during the performance test is greater than 90% of the emission standard in IDAPA 58.01.01.677, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

2.14 If the CO emission rate measured in the initial performance test is less than or equal to 75% of the hourly emission rate limit in Permit Condition 2.2, no further testing shall be required during the permit term. If the CO emission rate measured during the initial performance test is greater than 75%, but less than or equal to 90% of the hourly emission rate limit in Permit Condition 2.2, a second test shall be required in the third year of the permit term. If the CO emission rate measured during the initial performance test is greater than 90% of the hourly emission rate limit in Permit Condition 2.2, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

2.15 If the PM emission rate measured in the initial performance test is less than or equal to 75% of the hourly emission rate limit in Permit Condition 2.3, no further testing shall be required during the permit term. If the PM emission rate measured during the initial performance test is greater than 75%, but less than or equal to 90% of the hourly emission rate limit in Permit Condition 2.3, a second test shall be required in the third year of the permit term. If the PM emission rate measured during the initial performance test is greater than 90% of the hourly emission rate limit in Permit Condition 2.3, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

2.16 The permittee shall monitor and record hourly, the voltage and amperage applied by each T/R set to the discharge electrodes. A minimum of 20 hourly readings shall be recorded per day. The voltage and amperage recorded shall be consistent with manufacturer and O&M manual units of measure. The voltage and amperage records shall be kept at the facility for the most recent five-year period and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94; PTC No. 017-00027, 6/26/01]

2.17 The permittee shall comply with Permit Condition 1.8.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Reporting

2.18 The permittee shall submit to the Department and the EPA every six months, a summary report of steam production data acquired through Permit Condition 2.11. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

2.19 The permittee shall report the results of the performance test required in Permit Condition 2.12 to the Department and the EPA in a written report to be received no later than 30 days after completion of the test. If additional performance testing is conducted, it shall be conducted in accordance with Permit Conditions 2.13, 2.14, or 2.15, and the permittee shall report the results to the Department and the EPA in a written report to be received no later than 30 days after completion of the test.

[IDAPA 58.01.01.322.08(a), 5/1/94; PTC No. 017-00027, 6/26/01]

2.20 The permittee shall submit to the Department and EPA every six months, a summary report of the ESP monitoring data acquired through Permit Condition 2.16. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

2.21 The permittee shall submit to the Department and EPA every six months, a summary report of the visible emissions monitoring data acquired through Permit Condition 2.17. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08, 11, 4/5/00]

2.22 All documents including, but not limited to, records, monitoring data, supporting information, testing reports, or compliance certifications submitted to the Department shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[PTC No. 017-00027, 6/26/01]

3. KIPPER AND SONS – WOOD-FIRED BOILER, BOILER NO. 2

Summary Description

The following is a narrative description of boiler No. 2 regulated in this Tier I operating permit. This description is for informational purposes only.

Boiler No. 2 was manufactured in 1975. Riley Creek Lumber obtained a permit to construct the boiler on December 31, 1996 (PTC N0. 017-00027). The boiler's rated heat capacity is 67.69 MMBtu/hr, and it is fired on wood fuel exclusively. The boiler is located in the steam plant building, and operates 24 hours per day, seven days per week, 52 weeks per year.

Table 3.1 below describes the control devices used in controlling emissions from boiler No. 2.

Table 3.1 Emissions Units and Emissions Control Devices

Emission Unit(s) / Process(es)	Emission Control Device
Kipper and Sons	One multiclone and one ESP in series

Table 3.2 contains a summary of the requirements that apply to boiler No. 2. Specific permit requirements are listed below Table 3.2.

Table 3.2 Boiler No. 2 Emissions and Applicable Requirements Summary

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring, Recordkeeping, and Recording Requirements
3.1	Particulate matter	0.080 gr/dscf at 8% Oxygen	IDAPA 58.01.01.676	3.12, 3.13, 3.14, 3.19, 3.20
3.2	Carbon monoxide	70 lb/hr and 306 T/yr	PTC No. 017-00027	3.12, 3.13, 3.15, 3.19, 3.20
3.3	Particulate matter	12 lb/hr and 53 T/yr	PTC No. 017-00027	3.12, 3.13, 3.16, 3.19, 3.20
3.4	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	IDAPA 58.01.01.625	3.18, 3.22
3.5	Steaming rate	39,200 lb/hr	PTC No. 017-00027	3.12, 3.19
3.11	ESP voltage and amperage	Manufacturer and O&M manual specifications	PTC No. 017-00027	3.17, 3.21

Permit Limits / Standard Summary

3.1 A person shall not discharge to the atmosphere from any fuel-burning equipment in operation on or after October 1, 1979, with a maximum rated input equal to or exceeding 10 MMBtu/hr, particulate matter in excess of 0.080 gr/dscf corrected to 8% oxygen.

[IDAPA 58.01.01.676, 5/1/94; PTC No. 017-00027, 6/26/01]

3.2 Carbon monoxide emissions from the boiler No. 2 stack shall not exceed 70 lb/hr or 306 T/yr.
[PTC No. 017-00027, 6/26/01]

3.3 Particulate matter emissions from the boiler No. 2 stack shall not exceed 12 lb/hr or 53 T/yr.
[PTC No. 017-00027, 6/26/01]

3.4 The permittee shall comply with Permit Condition 1.7.
[IDAPA 58.01.01.625, 4/5/00; PTC No. 017-00027, 6/26/01]

3.5 The maximum steaming rate of Boiler No. 2 shall not exceed 39,200 lb/hr of steam, averaged over a three-hour period. The allowable steaming rate can be modified by conducting a source test(s), which demonstrates compliance with applicable standards.
[PTC No. 017-00027, 6/26/01]

3.6 Conveyors and drop points in the wood-waste fuel handling system shall be enclosed on the sides to minimize fugitive dust emissions.
[PTC No. 017-00027, 6/26/01]

3.7 The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to measure the steam production rate of boiler No. 2.
[PTC No. 017-00027, 6/26/01]

3.8 The permittee shall install, maintain in good working order, and operate as efficiently as practical, in accordance with the manufacturer's specifications, an ESP on the No. 2 boiler stack to control PM emissions from the No. 2 boiler.
[PTC No. 017-00027, 6/26/01]

3.9 The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer's specifications, equipment to continuously measure the voltage and amperage applied by each T/R set to the discharge electrodes and each ESP field.
[PTC No. 017-00027, 6/26/01]

3.10 In accordance with PTC No. 017-00027, dated June 26, 2001, the permittee shall have developed an O&M manual for the ESP according to manufacture specifications and recommendations. This manual shall describe the methods and procedures that will be followed to assure the ESP is maintained in good working order and operated as efficiently as practical. The manual shall remain onsite at all times and shall be made available to Department representatives upon request.
[PTC No. 017-00027, 6/26/01]

3.11 The voltage and amperage applied by each T/R set to the discharge electrodes shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual voltage and amperage specifications shall remain onsite at all times and shall be made available to Department representatives upon request.
[PTC No. 017-00027, 6/26/01]

Monitoring & Recordkeeping Requirements

3.12 The permittee shall monitor and record hourly, the steam production rate of boiler No. 2. The steam production rate shall be recorded as pounds per hour (lb/hr). Boiler No. 2 steam production rate records shall be kept at the facility for the most recent five-year period and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94; PTC No. 017-00027, 6/26/01]

3.13 Within the first year of the five-year Tier I operating permit term, the permittee shall conduct a performance test for PM and CO as specified in Permit Condition 1.15. The steaming rate of the boiler shall be monitored and recorded during the performance test.

[IDAPA 58.01.01.322.06(c), (d), 08(a), 09, 5/1/94; PTC No. 017-00027, 6/26/01]

3.14 If the particulate grain loading measured in the initial performance test is less than or equal to 75% of the emission standard in IDAPA 58.01.01.677, no further testing shall be required during the permit term. If the particulate grain loading measured during the initial performance test is greater than 75%, but less than or equal to 90% of the emission standard in IDAPA 58.01.01.677, a second test shall be required in the third year of the permit term. If the initial particulate grain loading measured during the performance test is greater than 90% of the emission standard in IDAPA 58.01.01.677, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

3.15 If the CO emission rate measured in the initial performance test is less than or equal to 75% of the hourly emission rate limit in Permit Condition 3.2, no further testing shall be required during the permit term. If the CO emission rate measured during the initial performance test is greater than 75%, but less than or equal to 90% of the hourly emission rate limit in Permit Condition 3.2, a second test shall be required in the third year of the permit term. If the CO emission rate measured during the initial performance test is greater than 90% of the hourly emission rate limit in Permit Condition 3.2, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

3.16 If the PM emission rate measured in the initial performance test is less than or equal to 75% of the hourly emission rate limit in Permit Condition 3.3, no further testing shall be required during the permit term. If the PM emission rate measured during the initial performance test is greater than 75%, but less than or equal to 90% of the hourly emission rate limit in Permit Condition 3.3, a second test shall be required in the third year of the permit term. If the PM emission rate measured during the initial performance test is greater than 90% of the hourly emission rate limit in Permit Condition 3.3, the permittee shall conduct a performance test annually.

[IDAPA 58.01.01.322.06(c), (d), 09, 5/1/94]

3.17 The permittee shall monitor and record hourly, the voltage and amperage applied by each T/R set to the discharge electrodes. A minimum of 20 hourly readings shall be recorded per day. The voltage and amperage recorded shall be consistent with manufacturer and O&M manual units of measure. The voltage and amperage records shall be kept at the facility for the most recent five-year period and shall be made available to Department representatives upon request.

[IDAPA 58.01.01.322.07, 5/1/94; PTC No. 017-00027, 6/26/01]

3.18 The permittee shall comply with Permit Condition 1.8.

[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]

Reporting

3.19 The permittee shall submit to the Department and the EPA every six months, a summary report of the steam generation data acquired through Permit Condition 3.12. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

3.20 The permittee shall report the results of the performance test required in Permit Condition 3.13 to the Department and the EPA in a written report to be received no later than 30 days after completion of the test. If additional performance testing is conducted, it shall be conducted in accordance with Permit Conditions 3.14, 3.15, 3.16, and the permittee shall report the results to the Department and the EPA in a written report to be received no later than 30 days after completion of the test.

[IDAPA 58.01.01.322.08(a), 5/1/94; PTC No. 017-00027, 6/26/01]

3.21 The permittee shall submit to the Department and EPA every six months, a summary report of the ESP monitoring data acquired through Permit Condition 3.17. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

3.22 The permittee shall submit to the Department and EPA every six months, a summary report of the visible emissions monitoring data acquired through Permit Condition 3.18. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

3.23 All documents including, but not limited to, records, monitoring data, supporting information, testing reports, or compliance certifications submitted to the Department shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[PTC No. 017-00027, 6/26/01]

4. RAIL CAR TARGET BOX, PLANER SHAVINGS CYCLONE BAGHOUSE, AND OLIVINE BURNER

Summary Description

The following is a narrative description of the sources regulated in this section of the Tier I operating permit. This description is for informational purposes only.

The rail car target box receives wood chips pneumatically from the sawmill and planer mill, and is classified as a point source due to the presence of an air-displacement stack. The planer shavings cyclone baghouse is required by the consent order dated July 10, 2001, as part of a Department-approved supplemental environmental project. The Olivine burner is no longer in use as a wood waste incinerator at Riley Creek; however, it is still subject to regulation until such time as it is dismantled and moved off-site.

Table 4.1 below describes the control devices used in controlling emissions from the sources regulated in this permit.

Table 4.1 Emissions Units and Emissions Control Devices

Emission Unit(s) / Process(es)	Emission Control Device
Rail car target box	None
Planer shavings cyclone baghouse	None
Olivine burner	None

Table 4.2 contains only a summary of the requirements that apply to the sources regulated in this section of the Tier I operating permit. Specific permit requirements are listed below Table 4.2.

Table 4.2 Emissions and Applicable Requirements Summary

Permit Conditions	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring, Recordkeeping, and Reporting Requirements
4.1	Particulate matter	0.1 gr/dscf, 2.14 lb/hr, and 9.39 T/yr [d]	IDAPA 58.01.01.710.08(b) and PTC No. 017-00027	4.9, 4.13
4.2	Fugitive emissions	Reasonable control	IDAPA 58.01.01.651 and PTC No. 017-00027	4.10, 4.12
4.3	Visible emissions	20% opacity for no more than three minutes in any 60-minute period	PTC No. 017-00027	4.11, 4.14
4.8	Pressure differential	Manufacturer and O&M manual specifications	PTC. No. 017-00027	4.9, 4.13

Permit Limits / Standard Summary

4.1 Particulate matter emissions from the planer shavings cyclone baghouse shall not exceed 0.1 gr/dscf as required by IDAPA 58.01.01.710.08(b), nor shall they exceed 2.14 lb/hr or 9.39 T/yr.

[PTC No. 017-00027, 6/26/01]

4.2 The permittee shall comply with Permit Condition 1.1.

[IDAPA 58.01.01.650-651, 5/1/94; PTC No. 017-00027, 6/26/01]

4.3 The permittee shall comply with Permit Condition 1.7.

[IDAPA 58.01.01.625, 4/5/00; PTC No. 017-00027, 6/26/01]

4.4 The Olivine burner and associated wood-waste handling system shall not be used, as designed, to incinerate wood waste.

[PTC No. 017-00027, 6/26/01]

4.5 The permittee shall install, maintain in good working order, and operate as efficiently as practical, in accordance with manufacturer specifications, a baghouse on the planer shavings cyclone to control PM emissions. The planer shavings cyclone baghouse is required to be installed by May 9, 2002, and is required to be fully implemented and operational by July 12, 2002, in accordance with the consent order dated July 10, 2001.

[Consent Order, 7/10/01; PTC No. 017-00027, 6/26/01]

4.6 The permittee shall install, calibrate, maintain, and operate, in accordance with manufacturer specifications, equipment to continuously measure the pressure differential across the planer shavings baghouse.

[PTC No. 017-00027, 6/26/01]

4.7 In accordance with PTC No. 017-00027, dated June 26, 2001, the permittee shall have developed an O&M manual for the planer shavings cyclone baghouse according to manufacture specifications and recommendations. This manual shall describe the methods and procedures that will be followed to assure the planer shavings cyclone baghouse is maintained in good working order and operated as efficiently as practical. The manual shall remain onsite at all times and shall be made available to Department representatives upon request.

[PTC No. 017-00027, 6/26/01]

4.8 The pressure differential across the planer shavings cyclone baghouse shall be maintained within manufacturer and O&M manual specifications. Documentation of both the manufacturer and O&M manual operating pressure differential specifications shall remain onsite at all times and shall be available to Department representatives upon request.

[PTC No. 017-00027, 6/26/01]

Monitoring & Recordkeeping Requirements

4.9 The permittee shall monitor and record once per day, while in operation, the pressure differential across the planer shavings cyclone baghouse. Records of the pressure differential shall remain onsite for the most recent two-year period and shall be made available to Department representatives upon request.

[PTC No. 017-00027, 6/26/01]

4.10 The permittee shall comply with Permit Conditions 1.2 through 1.4.

[IDAPA 58.01.01.322.06, 07, 5/1/94); IDAPA 58.01.01.322.08, 4/5/00]

4.11 The permittee shall comply with Permit Condition 1.8.

[PTC No. 017-00027, 6/26/01]

Reporting

4.12 The permittee shall submit to the Department and EPA every six months, a summary report of the fugitive emissions records acquired through Permit Condition 4.10. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

4.13 The permittee shall submit to the Department and EPA every six months, a summary report of the pressure differential records acquired through Permit Condition 4.9. The summary report is to be received no later than 30 days after the end of each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

4.14 The permittee shall submit to the Department and EPA every six months, a summary report of the visible emissions records acquired through Permit Condition 4.11. The summary report is to be received no later than 30 days after each six-month period.

[IDAPA 58.01.01.322.08(a), 5/1/94]

4.15 All documents including, but not limited to, records, monitoring data, supporting information, testing reports, or compliance certifications submitted to the Department shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

[PTC No. 017-00027, 6/26/01]

5. MISCELLANEOUS SOURCES

The sources listed in this section of the Tier I operating permit are not currently subject to regulation(s) under any other Department-issued permits. These sources have potential PM emission rates exceeding 10 percent of the significance level in IDAPA 58.01.01.006.92 and do not meet any other criteria for insignificant sources listed in IDAPA 58.01.01.317. These sources are also subject to IDAPA 58.01.01.702. Therefore, they are grouped together in this section with applicable requirements of the *Rules*. The following sources are included in this permit as miscellaneous sources: debarker, bark hog shredder, drying kilns, sawdust bin truck loadout, and sawmill chip bin truck loadout.

Table 5.1 contains a summary of the requirements that apply to the sources regulated in this section of the Tier I operating permit. Specific permit requirements are listed below Table 5.1.

Table 5.1 Emissions and Applicable Requirements Summary

Permit Condition	Affected Units	Parameter	Permit Limit / Standard Summary	Applicable Requirements Reference	Monitoring, Recordkeeping, and Reporting Requirements
5.1	Debarker, bark hog shredder, drying kilns, sawdust bin truck loadout, sawmill chip bin truck loadout	Particulate matter	Process weight rate	IDAPA 58.01.01.702	Not required

Permit Limits / Standard Summary

5.1 The debarker, bark hog shredder, drying kilns, sawdust bin truck loadout, and sawmill chip bin truck loadout shall not emit to the atmosphere PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour:

a. If PW is less than 17,000 lb/hr,

$E = 0.045(PW)^{0.60}$

b. If PW is equal to or greater than 17,000 lb/hr,

$E = 1.12(PW)^{0.27}$.

[IDAPA 58.01.01.702, 4/5/00]

6. INSIGNIFICANT ACTIVITIES

Activities and emission units identified as insignificant under IDAPA 58.01.01.317.01(b) are listed in the Tier I operating permit to qualify for a permit shield.

Table 6.1 Insignificant Activities

Description	Insignificant Activities IDAPA 58.01.01.317.01(b)(i) Citation
Sawmill, indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Sawmill screen (classifier), indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Sawmill chipper, indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Planer, indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Planner chipper, indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Planner trimmer, indoor	IDAPA 58.01.01.317.01(b)(i)(30)
Planer shavings convey	IDAPA 58.01.01.317.01(b)(i)(30)
Planer shavings bin truck loadout	IDAPA 58.01.01.317.01(b)(i)(30)
Fire water pump	IDAPA 58.01.01.317.01(b)(i)(30)
Small generators and compressors	IDAPA 58.01.01.317.01(b)(i)(6)

6.1 There are no monitoring, recordkeeping, or reporting requirements for insignificant emission units or activities beyond those required in the Facility-wide Permit Conditions.

TIER I OPERATING PERMIT GENERAL PROVISIONS

General Compliance

1. The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation and is grounds for enforcement action, for permit termination, revocation and reissuance, or revision, or for denial of a permit renewal application.

[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]

2. It shall not be a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the terms and conditions of this permit.

[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]

3. Any permittee who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information.

[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

Reopening

4. This permit may be revised, reopened, revoked and reissued, or terminated for cause. Cause for reopening exists under any of the circumstances listed in IDAPA 58.01.01.386. Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable in accordance with IDAPA 58.01.01.360 through 369.

[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]

5. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

Property Rights

6. This permit does not convey any property rights of any sort, or any exclusive privilege.

[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

Information Requests

7. The permittee shall furnish all information requested by the Department, within a reasonable time, that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.

[Idaho Code §39-108; IDAPA 58.01.01.122 (5/1/94) and 322.15.f (4/5/00); 40 CFR 70.6(a)(6)(v)]

8. Upon request, the permittee shall furnish to the Department copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.

[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

Severability

9. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

Changes Requiring Permit Revision or Notice

10. The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee shall comply with IDAPA 58.01.01.380 through 386 as applicable.

[IDAPA 58.01.01.200 through 223, 4/5/00; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380 through 386, 3/19/99; 40 CFR 70.4(b)(12), (14), (15), 70.7(d), (e)]

11. Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the Clean Air Act (CAA), 42 USC Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 USC Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01. 383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. Section 502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off-permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

[IDAPA 58.01.01.381 through 385, 3/19/99; IDAPA 58.01.01.209.05, 5/1/94; 40 CFR 70.4(b)(14), (15)]

Federal and State Enforceability

12. Unless specifically identified as a "state-only" provision, all terms and conditions in this permit, including any terms and conditions designed to limit a source's potential to emit, are enforceable: (a) by the Department in accordance with state law; and (b) by the United States or any other person in accordance with federal law.

[IDAPA 58.01.01.322.15.j, 5/1/94; 40 CFR 70.6(b)(1), (2)]

13. Provisions specifically identified as "state-only" are enforceable only in accordance with state law. "State-only" provisions are those that are not required under the CAA or under any of its applicable requirements or those provisions adopted by the state prior to federal approval.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.k, 3/23/98]

Inspection and Entry

14. Upon presentation of credentials, the permittee shall allow the Department or an authorized representative of the Department to do the following:

    a. Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit.

    b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit.

    c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.i, 3/19/99; 40 CFR 70.6(c)(2)]

New Requirements During Permit Term

15. The permittee shall comply with applicable requirements that become effective during the permit term on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing §70.5(c)(8)]

Fees

16. The owner or operator of a Tier I source shall pay annual registration fees to the Department in accordance with IDAPA 58.01.01.525 through IDAPA 58.01.01.538.

[IDAPA 58.01.01.322.15.n, 5/1/94; 40 CFR 70.6(a)(7)]

Certification

17. All documents submitted to the Department shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

Renewal

18. a. The owner or operator of a Tier I source shall submit an application to the Department for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

b. If a timely and complete application for a Tier I operating permit renewal is submitted, but the Department fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit, including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325, shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

Permit Shield

19. Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliant with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or

i. The Department has determined that other requirements specifically identified are not applicable and all the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.

b. The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a PTC), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).

c. Nothing in this permit shall alter or affect the following:

i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers.

ii. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

iii. The applicable requirements of the acid rain program, consistent with 42 USC Section 7651(g)(a).

iv. The ability of the EPA to obtain information from a source pursuant to Section 114 of the CAA, or the ability of the Department to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 322.15.m, 5/1/94; IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]

Compliance Schedule and Progress Reports

20. a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.

b. For each applicable requirement that will become effective during the term of this permit and provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.

c. For each applicable requirement that will become effective during the term of this permit and does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.

d. For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 10, 5/1/94; 40 CFR 70.6(c)(3) and (4)]

Periodic Compliance Certification

21. The permittee shall submit compliance certifications during the term of the permit for each emissions unit to the Department and EPA as follows:

a. Compliance certifications for all emissions units shall be submitted annually beginning 12 months from the permit issuance date, or more frequently if specified by the underlying applicable requirement or elsewhere in this permit by the Department.

b. The compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices.

c. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):

i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification.

ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required by this Tier I operating permit. If necessary, the owner or operator shall identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the CAA, which prohibits knowingly making a false certification or omitting material information.

iii. The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Paragraph 7.21.c.ii above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance, as defined under 40 CFR Part 64, occurred.

iv. Such other facts as the Department may require to determine the compliance status of the source.

d. All original compliance certifications shall be submitted to the Department and a copy of all compliance certifications shall be submitted to EPA.

[IDAPA 58.01.01.322.11, 5/1/94; 40 CFR 70.6(c)(5)(iii); 40 CFR 70.6(c)(5)(iv)]

False Statements

22. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

No Tampering

23. No person shall knowingly render inaccurate any monitoring device or method required under this permit, or any applicable rule or order, in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Semiannual Monitoring Reports

24. In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months starting six months from the date of permit issuance. All instances of deviation from these permit requirements must be clearly identified in the report. All required reports must be certified in accordance with IDAPA 58.01.01.123.

[IDAPA 58.01.01.322.15.q (3/23/98) and 322.08.c (4/5/00); 40 CFR 70.6(a)(3)(iii)]

Reporting Deviations and Excess Emissions

25. The permittee shall promptly report all deviations from permit requirements including upset conditions, their probable cause, and any corrective actions or preventive measures taken. For excess emissions, the report shall be made in accordance with IDAPA 58.01.01.130-136. For all other deviations, the report shall be made in accordance with IDAPA 58.01.01.322.08.c, unless otherwise specified in this permit.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

Permit Revision Not Required

26. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

Emergency

27. In accordance with IDAPA 58.01.01.332, an "emergency," as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 3/19/99; 40 CFR 70.6(g)]

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Riley Creek, Laclede
CAM Plan: ESP - PM Control
Boiler #1

1. Applicability

1.1 Control Technology: Electrostatic precipitator (ESP)
1.2 Pollutants
Primary: Particulate Matter (PM)
1.3 Process/Emissions unit: Wood-fired Boiler #1

2. Monitoring Approach Description

2.1 **Parameters to be monitored**
a. Secondary voltage, secondary current, and differential pressure through multicone tube
2.2 **Rationale for Monitoring Approach**
a. Secondary current and voltage: Normal (design) specification parameters are not exceeded during operation.
b. * Differential Pressure through multicone tube: Normal Dp is 0.5" to 5.9" WC. High pressure (6") usually indicate a malfunction or plugging of the multicone system.
2.3 **Monitoring Location**
a. Secondary current and Secondary voltage is measured after each transformer/rectifier set prior to electrode.
b. The displays are located in the Boiler Control panel next to the #1 and #2 Boiler Controls.
c. The Differential Pressure is displayed with other Controls in the Boiler Room.
2.4 **Analytical Devices in use**
a. Secondary current and Secondary voltage: Ammeter and voltmeter (respectively)
b. Differential Pressure: Inches in Water Column (WC)
2.5 **Data Acquisition and Measurement System Operation**
a. Frequency of measurement: Hourly (20 of 24 hourly readings recorded)
b. Reporting Units
1. Secondary current: amps
2. Secondary voltage: volts
3. Differential Pressure: Inches in Water Column
c. Recording process: Operators log the data manually.

2.6 **Data Requirements**

a. Baseline secondary current and secondary voltage measurements concurrent with emissions test.

b. Historical plant records of secondary current and secondary voltage measurements.

2.7 **Specific QA/QC Procedures**: Calibrate, maintain, and operate the instrumentation using procedures that take into account the manufacturer's specifications.

2.8 **Corrective Action Options: (Per O & M manual)** If Differential Pressure increases,

a. Tap striker plates on bottom of the multicone hopper to loosen ash. If not successful,

b. Contact Lead Man to shut down the system and relieve the plug.

3. Comments

3.1 Data Collection Frequency: Data recording is required for a minimum of 20 hours during each 24 hour period.

* = Reference from Multi Cone and ESP O & M Materials.

Riley Creek, Laclede
CAM Plan: ESP - PM Control
Boiler #2

1. Applicability

1.1 Control Technology: Electrostatic precipitator (ESP)
1.2 Pollutants
Primary: Particulate Matter (PM)
1.3 Process/Emissions unit: Wood-fired Boiler #2

2. Monitoring Approach Description

2.1 **Parameters to be monitored**
a. Secondary voltage, secondary current, and differential pressure through muticone tube.

2.2 **Rationale for Monitoring Approach**
a. Secondary current and voltage: Normal (design) specification parameters are not exceeded during operation.
b. * Differential Pressure through multicone tube: Normal Dp is 0.5" to 5.9" WC (3" being optimum). High pressure (6") usually indicate a malfunction or plugging of the multicone system.

2.3 **Monitoring Location**
a. Secondary current and Secondary voltage is measured after each transformer/rectifier set prior to electrode.
b. The displays are located in the Boiler Control panel next to the #1 and #2 Boiler Controls.
c. The Differential Pressure is displayed in the #2 Boiler Control Room.

2.4 **Analytical Devices in use**
a. Secondary current and Secondary voltage: Ammeter and voltmeter (respectively)
b. Differential Pressure: Inches in Water Column (WC)

2.5 **Data Acquisition and Measurement System Operation**
a. Frequency of measurement: Hourly (20 of 24 hourly readings recorded)
b. Reporting Units
1. Secondary current: amps
2. Secondary voltage: volts
c. Recording process: Operators log the data manually.

2.6 **Data Requirements**

a. Baseline secondary current and secondary voltage measurements concurrent with emissions test.

b. Historical plant records of secondary current and secondary voltage measurements.

2.7 **Specific QA/QC Procedures:** Calibrate, maintain, and operate the instrumentation using procedures that take into account the manufacturer's specifications.

2.8 **Corrective Action Options: (Per O & M manual)** If Differential Pressure increases,

a. Tap striker plates on bottom of the multicone hopper to loosen ash. If not successful,

b. Contact Lead Man to shut down the system and relieve the plugging.

Comments:

Data Collection Frequency: Data recording is required for a minimum of 20 hours during each 24 hour period.

* = Reference from Multi Cone and ESP O & M Materials.

Federal Express

Riley Creek Lumber Company

July 24, 2006

Mr. William Rogers,
Title V Permit Coordinator
Idaho Dept. of Environmental Quality
1410 North Hilton
Boise, ID 83706-1255

Re: Tier 1 Permit Renewal Application for Riley Creek Lumber Co., 017-00027, Bonner Co.

Dear Mr. Rogers:

Riley Creek Lumber Co. is pleased to submit this Tier 1 Operating Permit Renewal Application as required by IDAPA 58.01.01.313.b. Following are changes in the facility's operations since the original Tier 1 Permit Application was submitted in 2000:

- Addition in 2002 of baghouse for the planer by-products handling system,
- Paving of the log yard in 2003 and 2004,
- Removal of the Olivine burner from the site in 2004. Please remove references to the Olivine burner from Section 4.

Riley Creek respectfully requests that EPA Test Method 25a be added to Condition 1.6 in Table 1.2 for VOCs, and clarification that VOCs shall be expressed as carbon.

In addition, based on excellent results from a performance stack test conducted on May 4, 2004, we respectfully request an adjustment to the permitted steaming rate of Boiler No. 1 to 44,200 lbs of steam/3-hour rolling average. Enclosed is a copy of the letter from IDEQ dated July 2, 2004, stating that the maximum allowable steaming rate for Boiler No. 1 is 44,200 lbs. of steam/hour. However, due to a more restrictive limit in Section 2.5 of the permit, the facility was unable to benefit from the increase in steam flow allowed by IDEQ. Using IDEQ's typical conversion factor of 1,191 Btu/lb steam and 75% efficiency, Boiler No. 1 design capacity, 70.23 MMBtu/hr, converts to the following steaming rate, which is compatible with the test results:

70.23 MMBtu/hr * 1,000,000 Btu/MMBtu * 75% eff. / 1,191 Btu/lb of steam = 44,225 lb steam/hour

Maximum BTU design capacity rather than steam flow was used for the emission estimates in this renewal application, so calculated emissions would not be increased by this change.

Riley Creek also respectfully requests that we be allowed to review the draft Tier 1 permit prior to issuance for public comment.

If you have any concerns or technical questions regarding this application, please contact Riley Creek's Environmental Manager, Glenda Empsall 208-772-0505 extension 438, or cell phone 208-661-2644. Based on information and belief formed after reasonable inquiry, the statements and information in these documents are true, accurate, and complete.

Sincerely,

Marc A. Brinkmeyer, President

cc: Mr. Dan Redline, Air Quality Program Manager, IDEQ
Hand-delivery

PO Box 220 ◇ Laclede, ID 83841 ◇ 208-263-7574 ◇ FAX 208-263-1566

STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

2110 Ironwood Parkway • Coeur d'Alene, Idaho 83814-2648 • (208) 769-1422

Dirk Kempthorne, Governor
C. Stephen Allred, Director

July 2, 2004

Anthony Colter, Plant Manager
Riley Creek Lumber Company
P. O. Box 220
Laclede, ID 83841

Re: Review of the particulate matter and carbon monoxide performance tests conducted on the Perry Smith boiler May 4, 2004 by Riley Creek Lumber Company, Laclede.

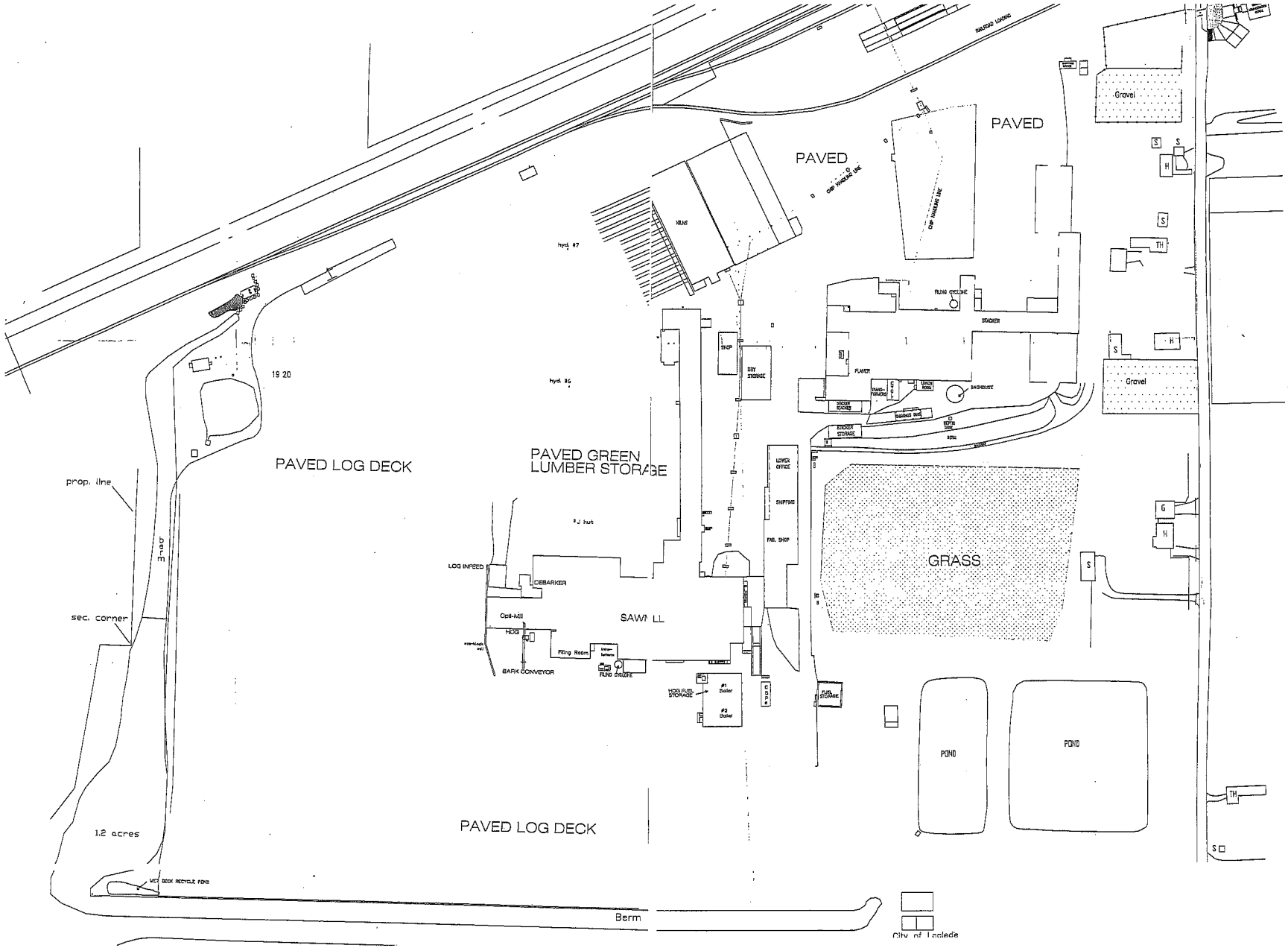
Dear Mr. Colter:

On June 2, 2004, the Department of Environmental Quality (DEQ) received a particulate matter (PM) and carbon monoxide (CO) test report, prepared by Antec Environmental Services, for the Perry Smith/ABCO boiler (boiler no.1) operated by Riley Creek Lumber Company in Laclede, Idaho. The performance tests were conducted on May 4, 2004 in order to increase the current allowable steaming rate of the boiler. Paragraph 2.5 of the Tier I Operating Permit, # 017-00027, issued to Riley Creek Lumber July 30, 2002, allows an increase of up to 120% of the average steaming rate attained during a performance test. The protocol for these tests was approved by DEQ on March 30, 2004.

Based on a review of the submitted test report, DEQ has determined that the EPA Method 5 and 10 tests on boiler no. 1 successfully demonstrated compliance with the emission limits listed in permit no. 017-00027 at the increased steaming rate. The average steaming rate during emission testing was 36,800 pounds per hour. Therefore, based on DEQ's review of this test report, the maximum allowable steaming rate for boiler no. 1 is 44,200 pounds per hour (three-hour average). The emission test results are summarized in Table 1 and compared to the permit limits.

Table 1. Emission test summary.

Constituent	Permit limit	Test conditions	% of limit
PM	22 lb/hr	0.5 lb/hr	2.3
PM	0.2 gr/dscf, 8% O_2	0.004 gr/dscf, 8% O_2	2.0
CO	46 lb/hr	15.9 lb/hr	35
Steaming rate	40,200 lb/hr (3-hr avg.)	36,800 lb/hr (3-hr avg.)	92



RILEY CREEK - LACLEDE SAWMILL